



## SERVICE MANUAL

Product Type: HD PERSONAL VIDEO  
RECORDER & RECEIVER

Manual Series: HDR230

Manual Part #: 3829RVN006M

Model Line: A

Product Year: 2003

Model Series:

HDR230

## CONTENTS

Summary .....	1
Exploded View .....	2
Electrical .....	3
Parts List .....	4

Published September 2003  
by Technical Publications  
Zenith Electronics Corporation  
201 James Record Road  
Huntsville, Alabama 35824-1513

Copyright © 2003 by Zenith Electronics Corporation

# **SECTION 1**

## **SUMMARY**

### **CONTENTS**

<b>OVERVIEW.....</b>	<b>1-2</b>
<b>PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS.....</b>	<b>1-3</b>
<b>SERVICING PRECAUTIONS.....</b>	<b>1-4</b>
<b>SPECIFICATIONS.....</b>	<b>1-5</b>
<b>LOCATION OF CUSTOMER CONTROLS .....</b>	<b>1-6</b>

# OVERVIEW

## 1.1 Explanation

- HD PERSONAL VIDEO RECORDER & RECEIVER or PVR(Personal Video Recorder)-STB(Set-Top Box) stores video and audio data into HDD with a specific form while receiving the ground wave of HD digital broadcasting only or gives additional related services.
- Configuration  
It uses IBM PPC405GP of PowerPC series as CPU, which supports PCI Bus I/F for PVR. VSB section executes VSB decoding for ATSC signal with IF(44MHz) as an input entered from the tuner and transfers TP data by decoding ATSC signal via VSB decoding to PVR section and HD-1.  
MPEG Decoder supports MP@HL by using HD-1 and uses an external AC-3 Decoder.  
PVR section stores only necessary data of TP data from the digital TV signal into HDD via IDE I/F chip.

The overall structure is as follows:

- System section  
CPU, Main Memory, MPEG-II Decoder, AC-3 Decoder, Flash Memory, Audio DAC, CPLD
- PVR section  
PCI I/F, PDR-Pro executing TP De-Mux, Memory, IDE I/F Chip
- VSB section  
Generate TP signal by transferring the IF of the desired channel from the RF signal received from the tuner to VSB receiver.
- Front section  
Receive various user key inputs and display the status of the set-top box on the LED.
- Power section  
Supply the DC power to the main digital board and HDD by using AC 120V as an input.

# PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

## IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-video service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

**CAUTION:** Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

## GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.



The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

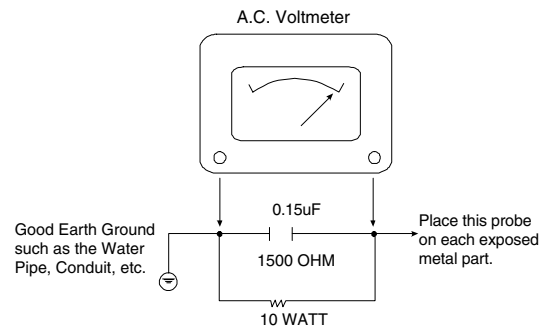
**CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.**

## SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

### FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a high current device or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. **DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST.** Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



## TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.



# SERVICING PRECAUTIONS

**CAUTION:** Before servicing the HD PERSONAL VIDEO RECORDER & RECEIVER covered by this service data and its supplements and addends, read and follow the *SAFETY PRECAUTIONS*. *NOTE:* if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.

*Remember Safety First:*

## General Servicing Precautions

1. Always unplug the HD PERSONAL VIDEO RECORDER & RECEIVER AC power cord from the AC power source before:
  - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
  - (2) Disconnecting or reconnecting any internal electrical plug or other electrical connection.
  - (3) Connecting a test substitute in parallel with an electrolytic capacitor.

**Caution:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this HD PERSONAL VIDEO RECORDER & RECEIVER or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this HD PERSONAL VIDEO RECORDER & RECEIVER and / or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect the test instrument ground lead to an appropriate ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

## Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.

**Note 1:** Accessible Conductive Parts include Metal panels, Input terminals, Earphone jacks, etc.

## Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate an electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**Caution:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

# SPECIFICATIONS

Television System  
Channel Coverage

NTSC, DTV standard (1080i, 720p, 480p, 480i)  
Terrestrial: 2-69, Cable: 1-125

## Input/ Output

ATSC ANT Input  
ANT Loop Out  
Component Video Output

ANT IN (1) (ATSC-8VSB over CATV or Terrestrial)  
Out To TV (1)  
Component Out (1), Typical RCA Jack Connectors  
1080i, 720p, 480p YPbPr

RGB Output  
S-Video Output

RGB Out(1), 15-Pin connector  
S-Video Out (1), 4-pin Mini-DIN  
480i Y/C

Video Output

Video Out (1), Typical RCA Jack Connectors  
480i Composite

Digital Audio Output  
Analog Audio Output  
Authorized Service Port

Coaxial, Optical (Dolby AC-3 output)  
Audio Out (2) (Fixed Output Level or Variable Output Level)  
9-pin Serial Port (1)

Hard Disk Drive  
Recording Time  
Dimension (W x H X D)  
Weight  
Power Requirements  
Power Consumption

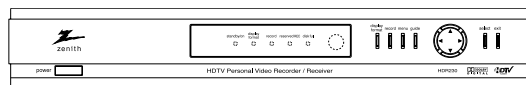
80G Bytes  
About 9 hours (HD format), about 27 hours (SD format),  
17 x 3 x 12.8 inches (430 x 76.5 x 326 mm)  
7.7 lbs (3.5 kg)  
AC 120V, 60Hz  
35W

## Environment

Humidity  
Storage Temperature  
Operating Temperature

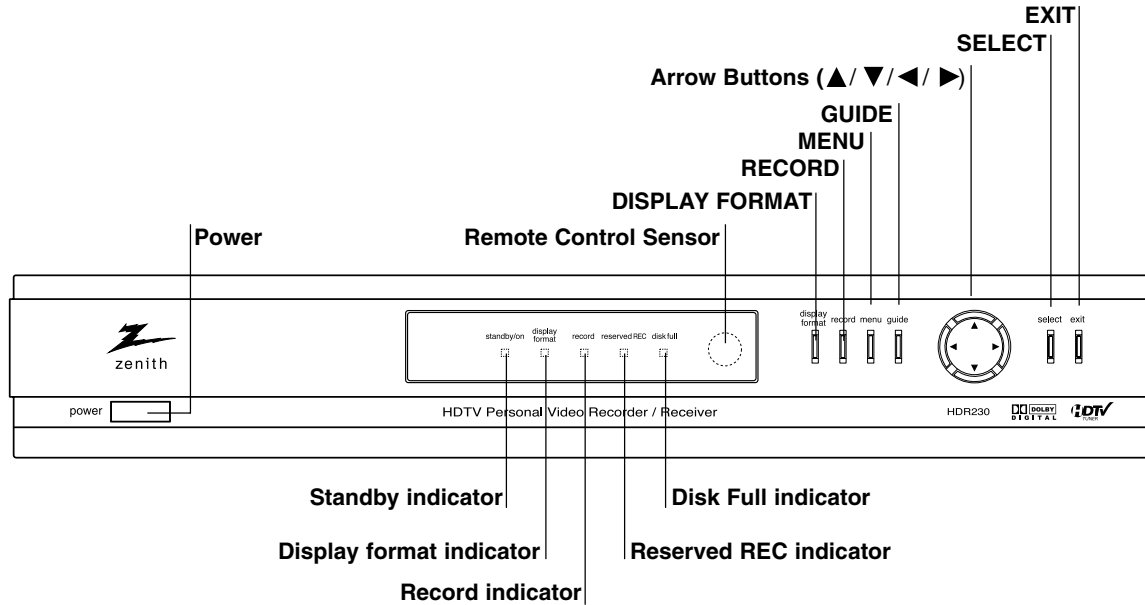
0 to 99 percent non condensing  
-20 to 60 degrees Celsius (-4 to 140 degrees Fahrenheit)  
0 to 40 degrees Celsius (32 to 104 degrees Fahrenheit)

## FRONT VIEW (HDR230)

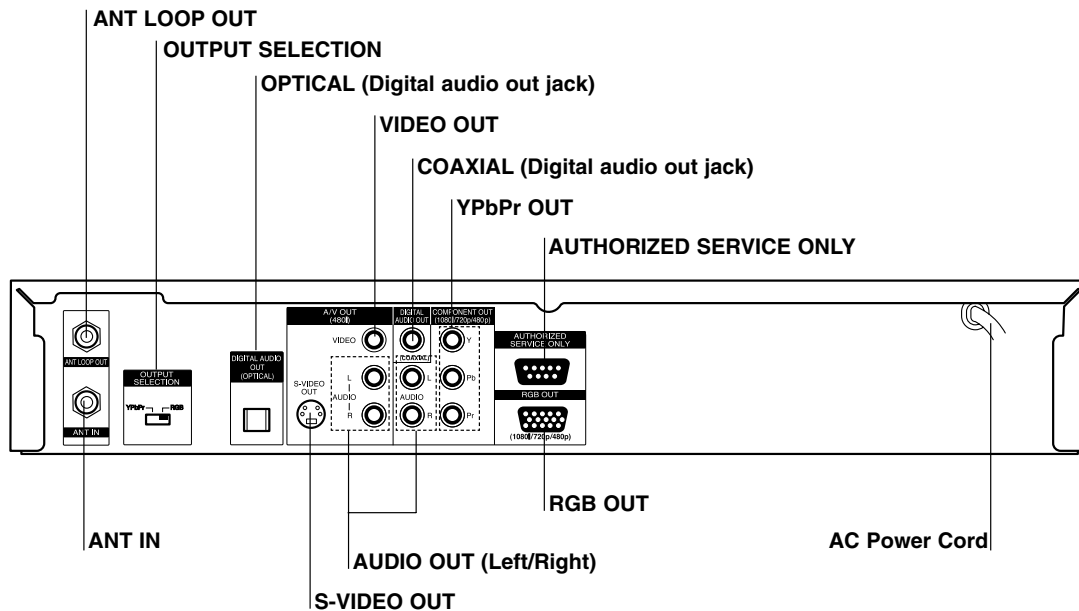


# LOCATION OF CUSTOMER CONTROLS

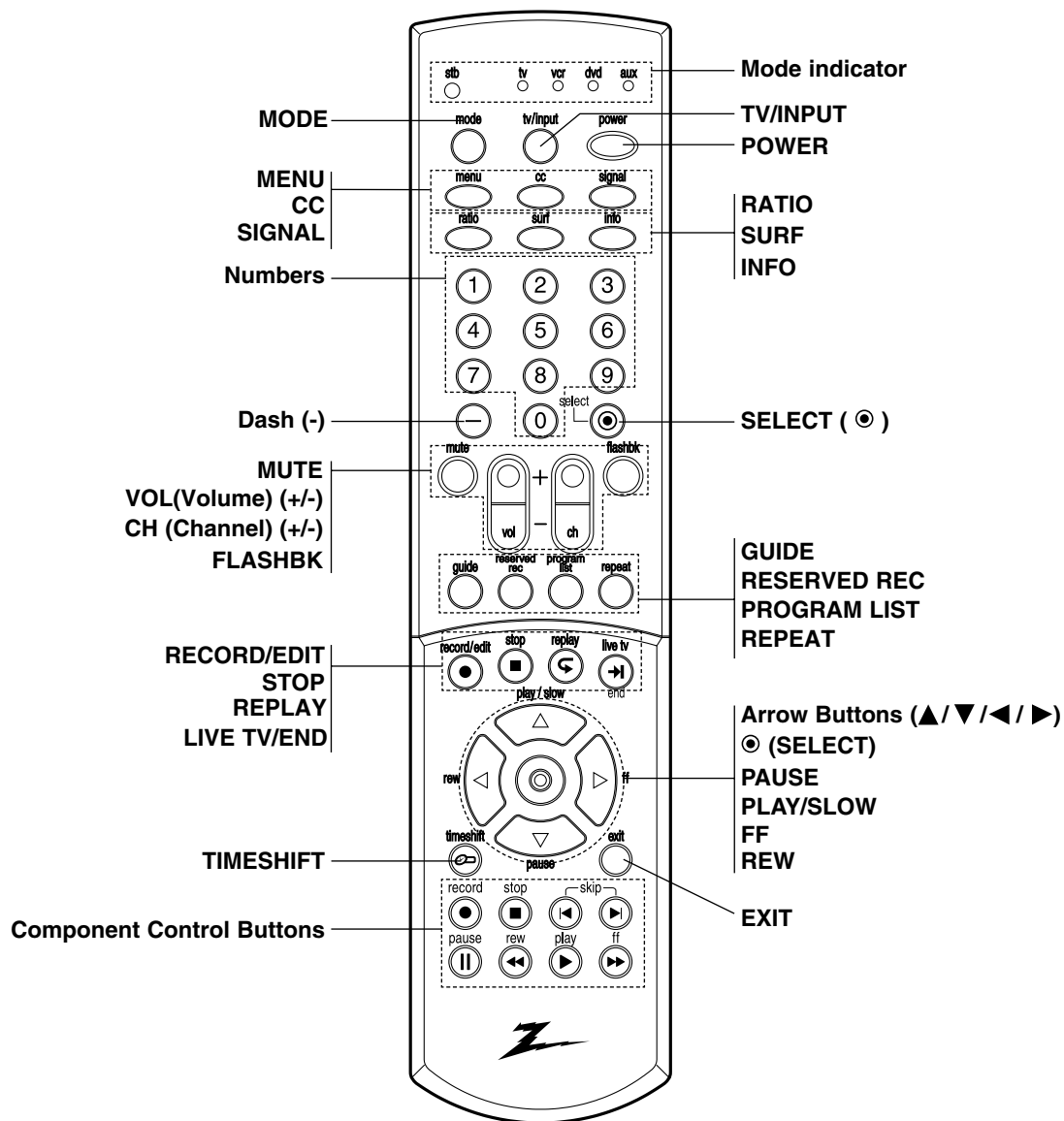
## FRONT



## REAR



# REMOTE CONTROL



**SECTION 2**

**CABINET & MAIN CHASSIS**

**CONTENTS**

**EXPLODED VIEWS .....2-2**

**1. Cabinet and Main Frame Section .....2-2**

**2. Packing Accessory Section .....2-3**

# EXPLODED VIEWS

## 1. Cabinet and Main Frame Section

NOTE) Refer to "SECTION 4 REPLACEMENT PARTS LIST" in order to look for the part number of each part.

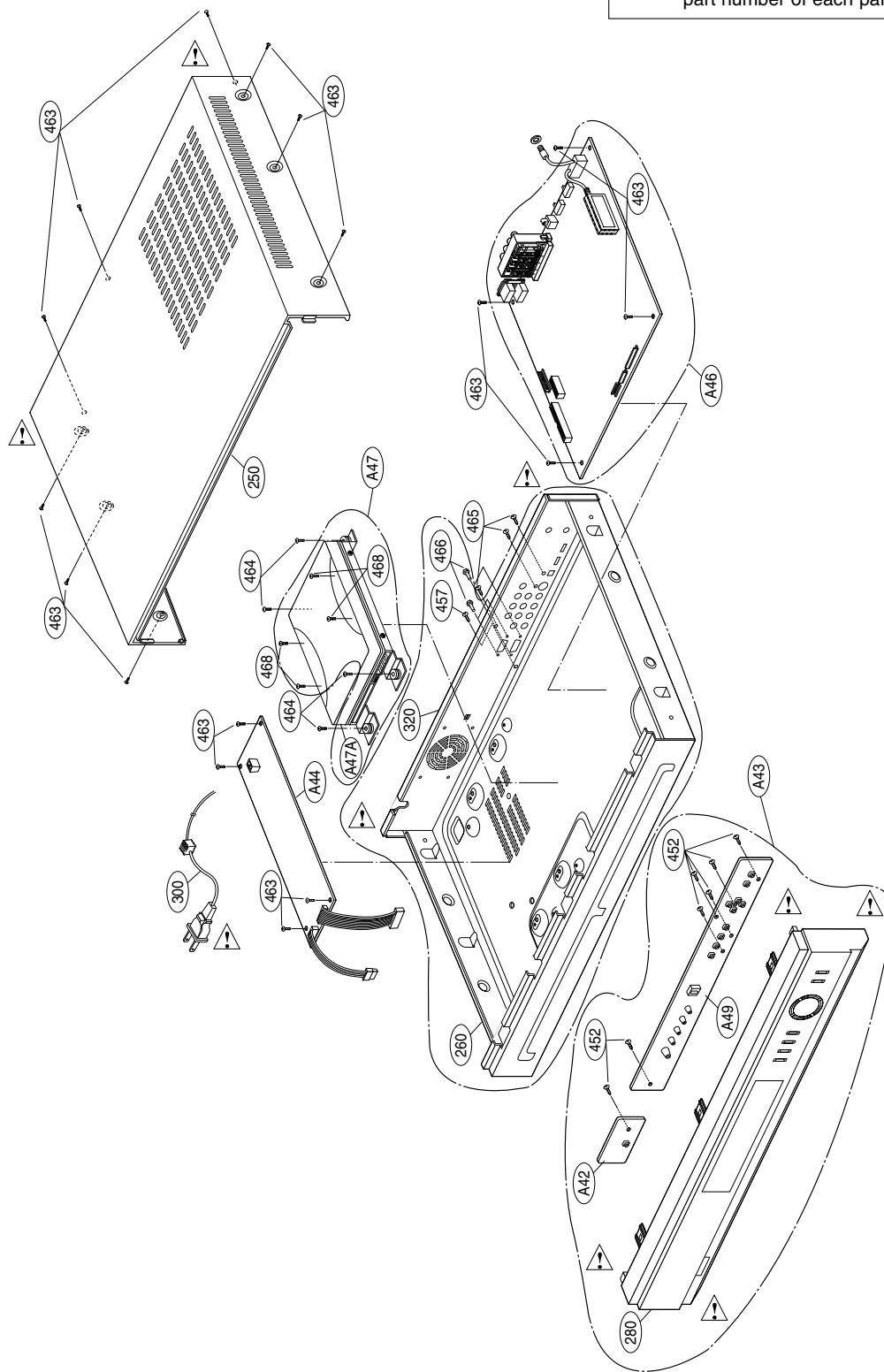
5

4

3

2

1



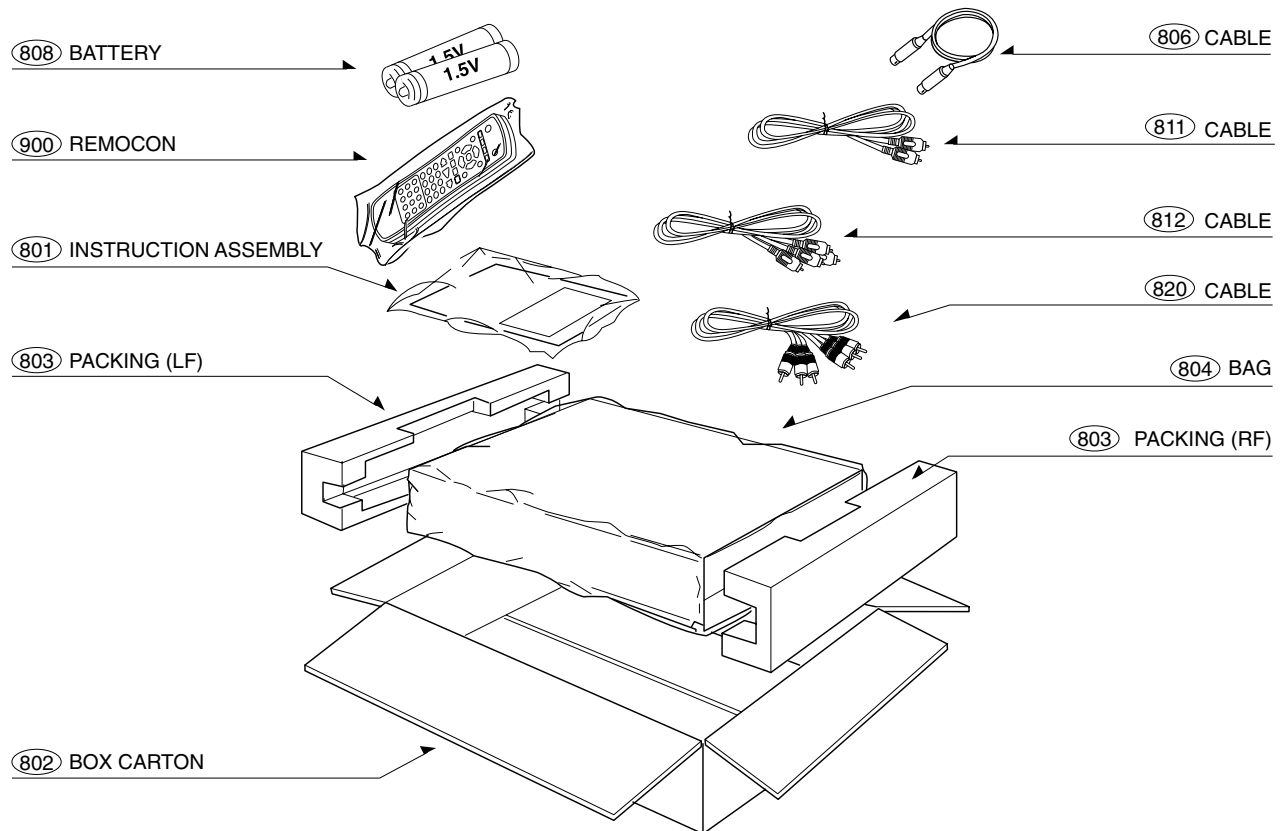
A

B

C

D

## 2. Packing Accessory Section



# SECTION 3

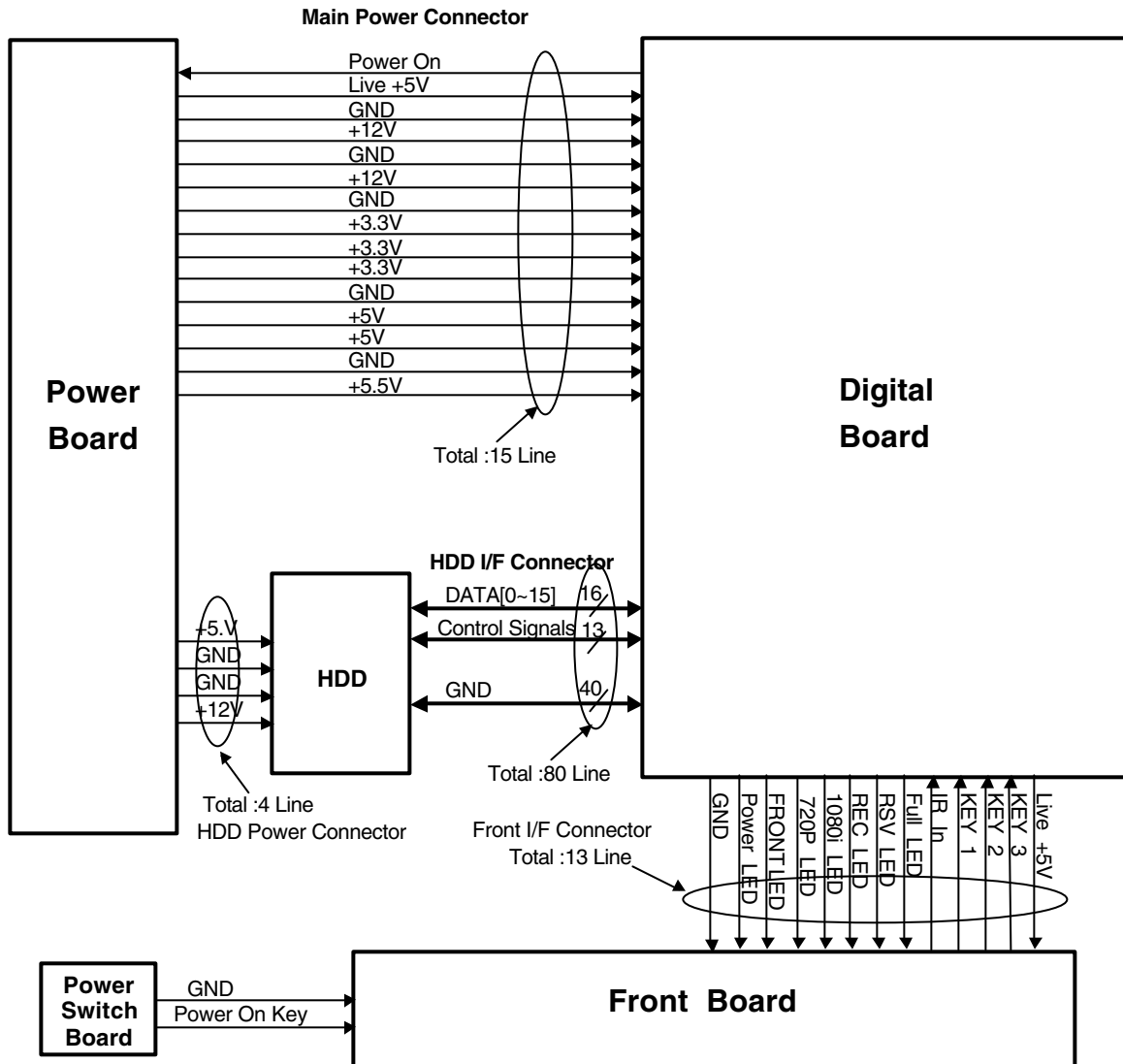
## ELECTRICAL

### CONTENTS

1. WIRING DIAGRAM.....	3-2	7. CIRCUIT DIAGRAMS .....	3-56
2. SYSTEM S/W UP-DATE & DIAGNOSTIC S/W..	3-3	1) POWER CIRCUIT DIAGRAM.....	3-56
3. ELECTRICAL TROUBLESHOOTING		2) SYSTEM CIRCUIT DIAGRAM 1 .....	3-58
GUIDE .....	3-7	3) SYSTEM CIRCUIT DIAGRAM 2 .....	3-60
1) INITIAL.....	3-7	4) SYSTEM CIRCUIT DIAGRAM 3 .....	3-65
2) POWER(SMPS) PART .....	3-8	5) VIDEO CIRCUIT DIAGRAM 1 .....	3-67
3) SYSTEM PART.....	3-10	6) VIDEO CIRCUIT DIAGRAM 2.....	3-69
4) VIDEO PART.....	3-11	7) AUDIO CIRCUIT DIAGRAM.....	3-68
5) AUDIO PART .....	3-14	8) PVR CIRCUIT DIAGRAM 1.....	3-70
6) VSB PART .....	3-15	9) PVR CIRCUIT DIAGRAM 2.....	3-72
7) PVR PART .....	3-16	10) VSB CIRCUIT DIAGRAM.....	3-74
4. WAVEFORMS .....	3-17	11) AUDIO/VIDEO OUTPUT	
1) DIGITAL SYSTEM [CLOCK GENERATOR]		CIRCUIT DIAGRAM .....	3-76
PART.....	3-17	12) POWER, IF, $\mu$ -COM, VIDEO	
2) DIGITAL SYSTEM [SYSTEM MEMORY]		CIRCUIT DIAGRAM .....	3-78
PART.....	3-19	13) FRONT CIRCUIT DIAGRAM.....	3-80
3) VIDEO [PLL] PART .....	3-21	8. PRINTED CIRCUIT DIAGRAMS .....	3-82
4) VIDEO [OUTPUT CONNECTOR] PART.....	3-23	1) DIGITAL MAIN PRINTED	
5) AUDIO PART .....	3-25	CIRCUIT DIAGRAMS(TOP) .....	3-82
6) PVR [CLOCK] PART .....	3-27	2) DIGITAL MAIN PRINTED	
7) VSB [VSB DECODER] PART .....	3-29	CIRCUIT DIAGRAMS(BOTTOM).....	3-84
8) VSB [DOWN CONVERTER] PART.....	3-31	3) KEY(LEFT) PRINTED	
9) MICOM [DOWN CONVERTER] PART.....	3-33	CIRCUIT DIAGRAM .....	3-86
5. VOLTAGE MEASURED VALUE.....	3-35	4) KEY(RIGHT) PRINTED	
1) CAPACITOR .....	3-35	CIRCUIT DIAGRAM .....	3-86
2) DIODE.....	3-38	5) POWER PRINTED CIRCUIT DIAGRAM.....	3-88
3) TRANSISTOR.....	3-39	9. REFERENCE .....	3-90
6. BLOCK DIAGRAMS .....	3-40	1) RESET BLOCK DIAGRAM .....	3-90
1) OVERALL BLOCK DIAGRAM.....	3-40	2) POWER BLOCK DIAGRAM .....	3-91
2) POWER BLOCK DIAGRAM .....	3-42		
3) SYSTEM BLOCK DIAGRAM .....	3-44		
4) VIDEO BLOCK DIAGRAM.....	3-46		
5) VIDEO PLL BLOCK DIAGRAM .....	3-48		
6) AUDIO BLOCK DIAGRAM.....	3-50		
7) TUNER/VSB & MICOM			
BLOCK DIAGRAM .....	3-52		
8) PVR BLOCK DIAGRAM.....	3-54		



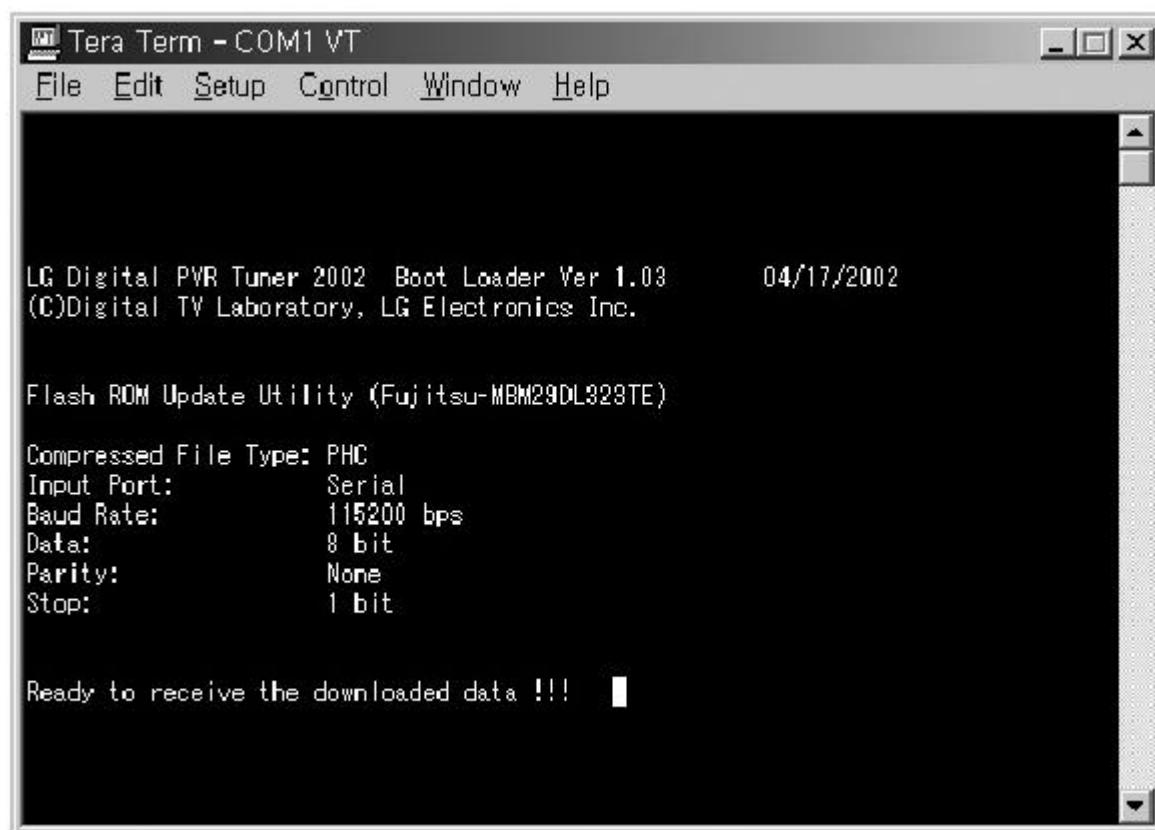
# 1. WIRING DIAGRAM



## 2. SYSTEM S/W UP-DATE & DIAGNOSTIC S/W

### • System S/W Up-date

- 1) Connect the serial cable between the connector for a service and the serial port of PC, and run TeraTerm Program on the PC.
- 2) Switch to System Code Up-data mode by press select key and left Volume(◀) key together at the front.
- 3) TeraTerm screen
  - "Preparation for S/W Up-data is completed" message is displayed on the screen.
  - Select 'Send file' from File menu of TeraTerm and select the file for Up-data.  
At this time, select 'binary' from Option.
  - The extension of this file is .phc.
- 4) Decompress this file at the system after this file is transmitted, and write it into the flash memory.
- 5) S/W is restarted after writing is done.
- 6) Check "S/W version" of "Troubleshooting" item from the setup menu whether the system code Up-date is done.



- Using Diagnostic S/W

#### Preparation for diagnostic using test code stored at flash memory

- 1) At Power Up, connect the serial cable to the port for a service, place the cursor on TeraTerm screen, and turn the power of HDR230 on with "Shift+T" of the PC keyboard pressed.

#### Parts possible to check during running Diagnostic S/W using Probe ROM or Test Code

##### Initial screen

```
=====
ROM TEST Program For HDR230 (2003/03/08)
=====
----- System Info -----
Processor = 405GP, PVR: 40110145
Processor speed = 200 MHz
PLB speed = 100 MHz
OPB speed = 33 MHz
Ext Bus speed = 33 MHz
PCI Bus speed = 33 MHz (Sync)
Amount of SDRAM = 32 MBytes
Internal PCI arbiter enabled
-----
Front B/D Init
***** TEST MENU *****
1 - System SDRAM Test
2 - HD1 Memory Test
3 - HD1 DMA Test
4 - AC-3 Audio Decoder Test
5 - PCF8584 I2C(ATSC Tuner Test)
6 - CPU I2C(EEPROM/VSB/Front BD/TDA7440/SAA7120) Test
7 - PCI Device(PDR Pro / IDE Controller) Test
8 - IDE R/W Test
9 - Video Display Test
A - FLASH Memory Test
T - Device Total Test
B - FLASH Program from Serial port
C - Flash Program from HDD
->
```

### Screen shot during Test

Run the test by press “ T” and then “Enter” key

=====System Test=====

System SDRAM Test----->OK(32MB)

Flash Memory Test Start

....

Flash Memory Test----->OK

HD1 Test----->OK

Audio Decoder Test----->OK

HD1 DMA Test----->OK

IIC EEPROM Test----->OK

USB Test----->OK

TDA7440 Test----->OK

SAA7120 Test----->OK

Tuner IIC Test----->OK

PDR-Pro Test----->OK

IDE Device Test----->OK

HDD R/W Test----->OK

Front Test----->OK

## Screen shot during Test

```
*****System Test Result*****
01. System SDRAM Test----->OK
02. Flash Memory Test----->OK
03. HD1 Test----->OK
04. Audio Decoder Test----->OK
05. HD1 DMA Test----->OK
06. I2C EEPROM Test----->OK
07. VSB Test----->OK
08. TDA7440 Test----->OK
09. SAA7120 Test----->OK
10. I2C Tuner Test----->OK
11. PDR-PRO Test----->OK
12. IDE Device Test----->OK
13. HDD Read/Write Test----->OK
14. Front Test----->OK

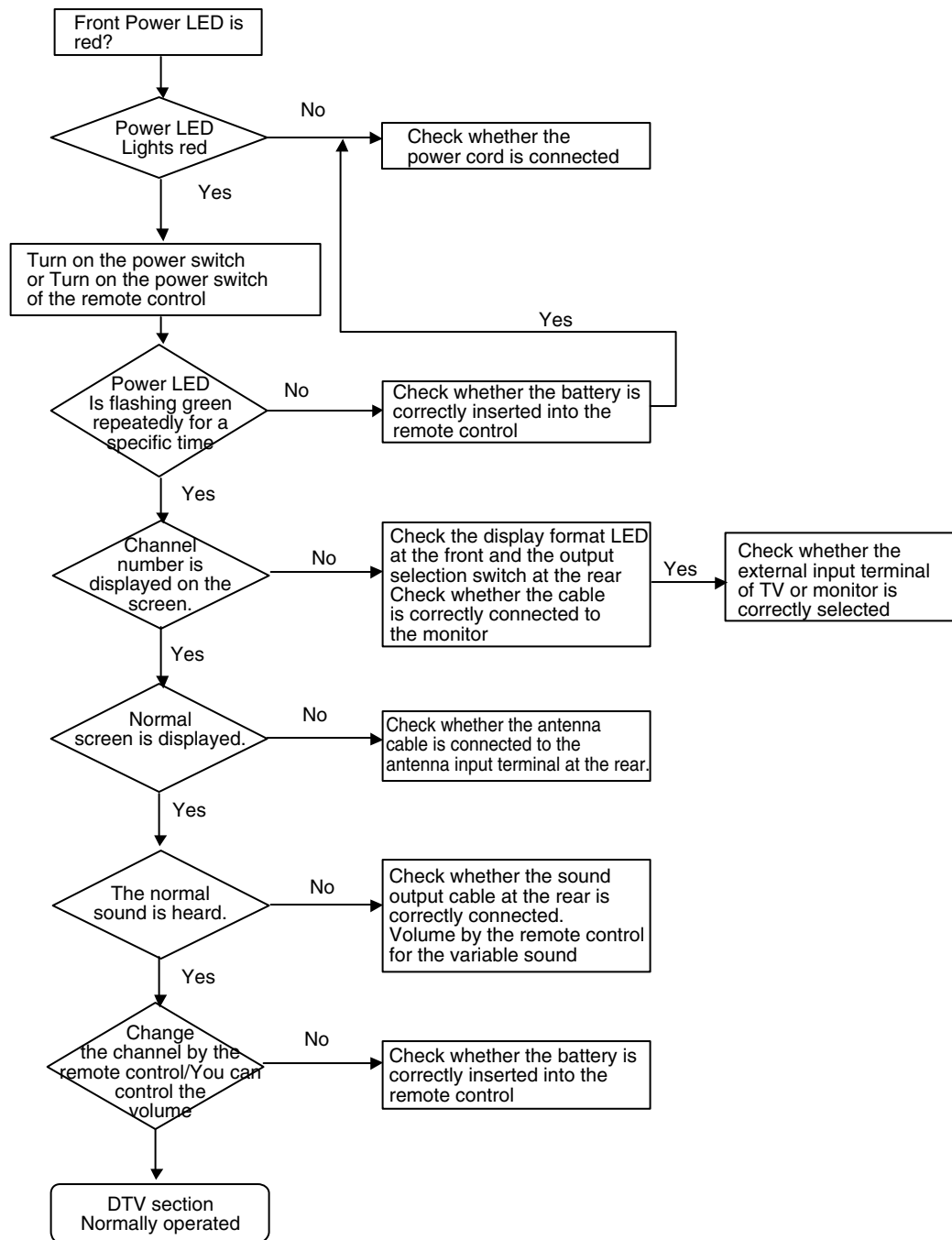
      System test is passed successfully
*****
```

### • Display “Error” when any error is occurred

At this time, you can easily find out the problem by concentrating on the section where the error is occurred. The troubleshooting method for the error by each section can be concretely read at the following section.

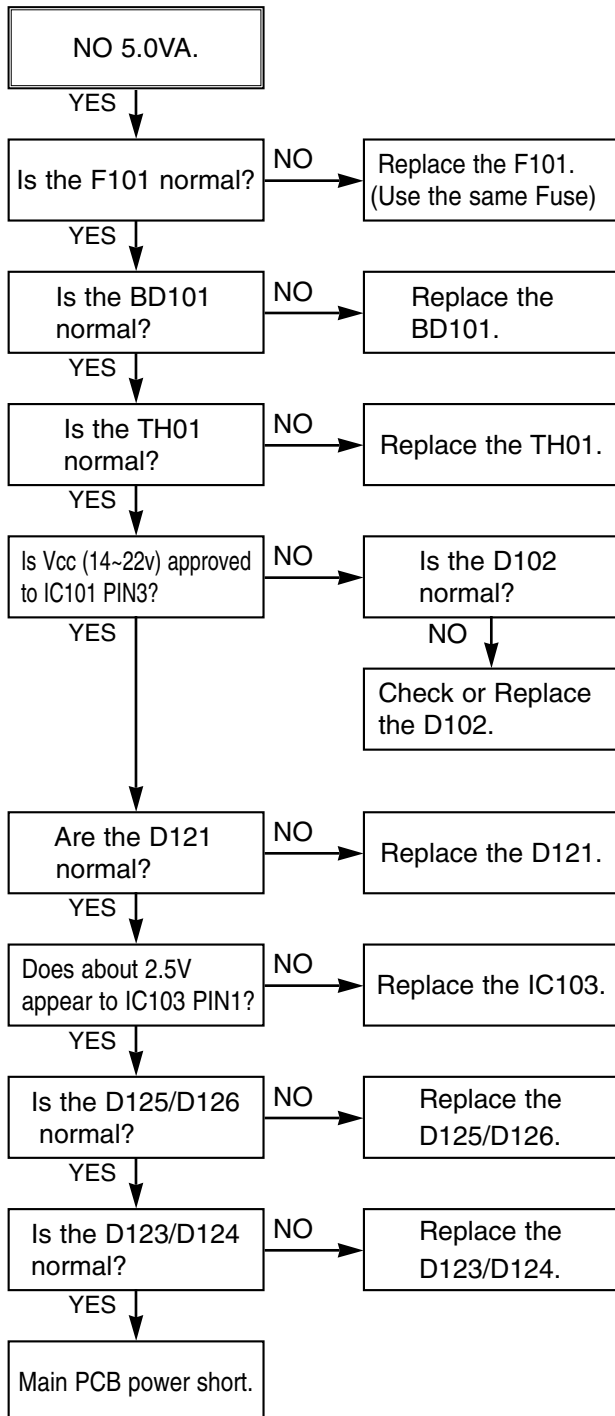
### 3. ELECTRICAL TROUBLESHOOTING GUIDE

#### 1) INITIAL

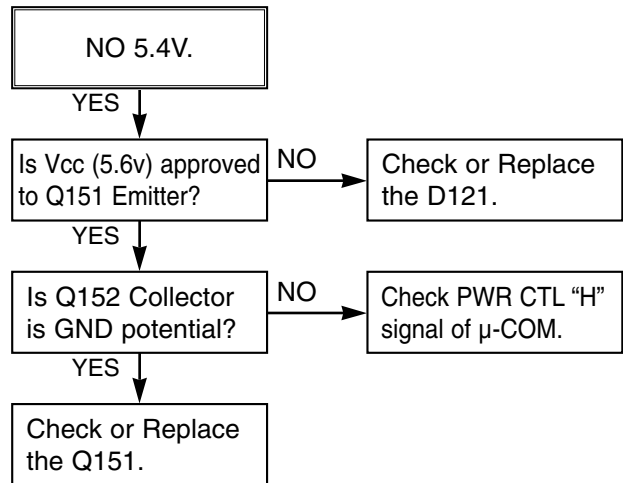


## 2) POWER(SMPS) PART

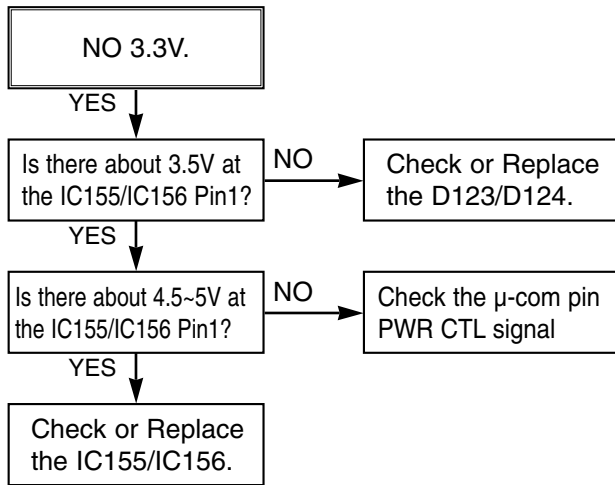
(1) No 5.0VA



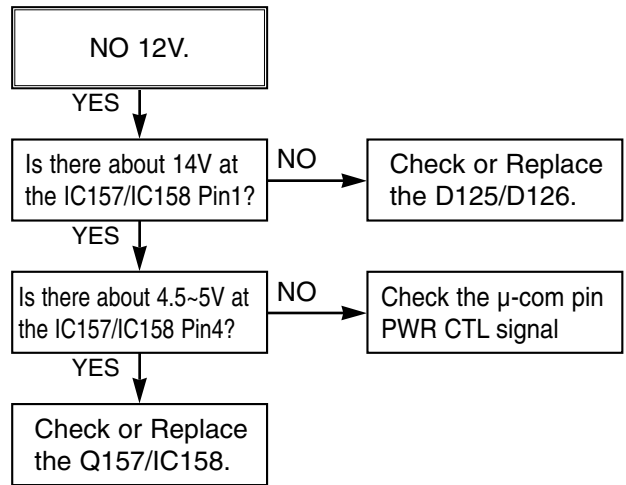
(2) No 5.4V



(3) No 3.3V

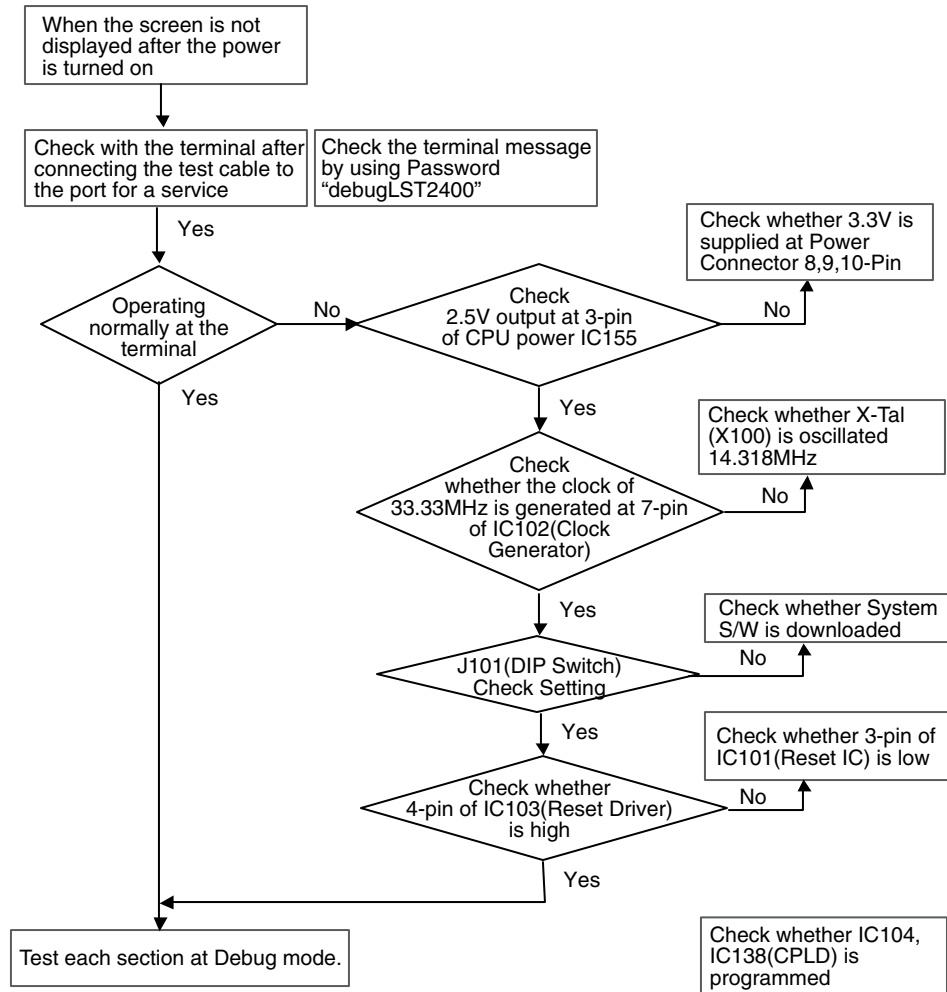


(4) No 12V

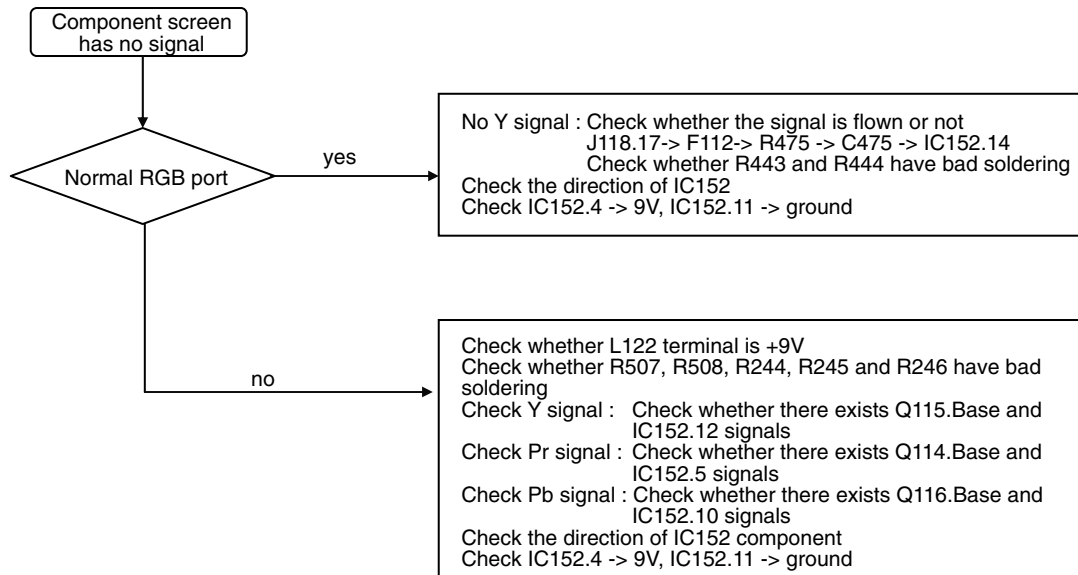
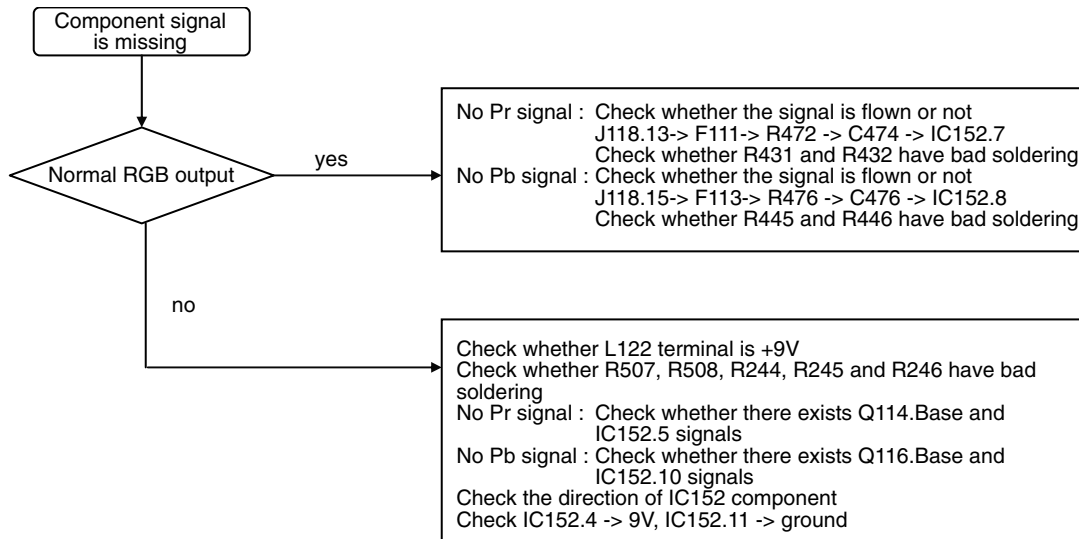


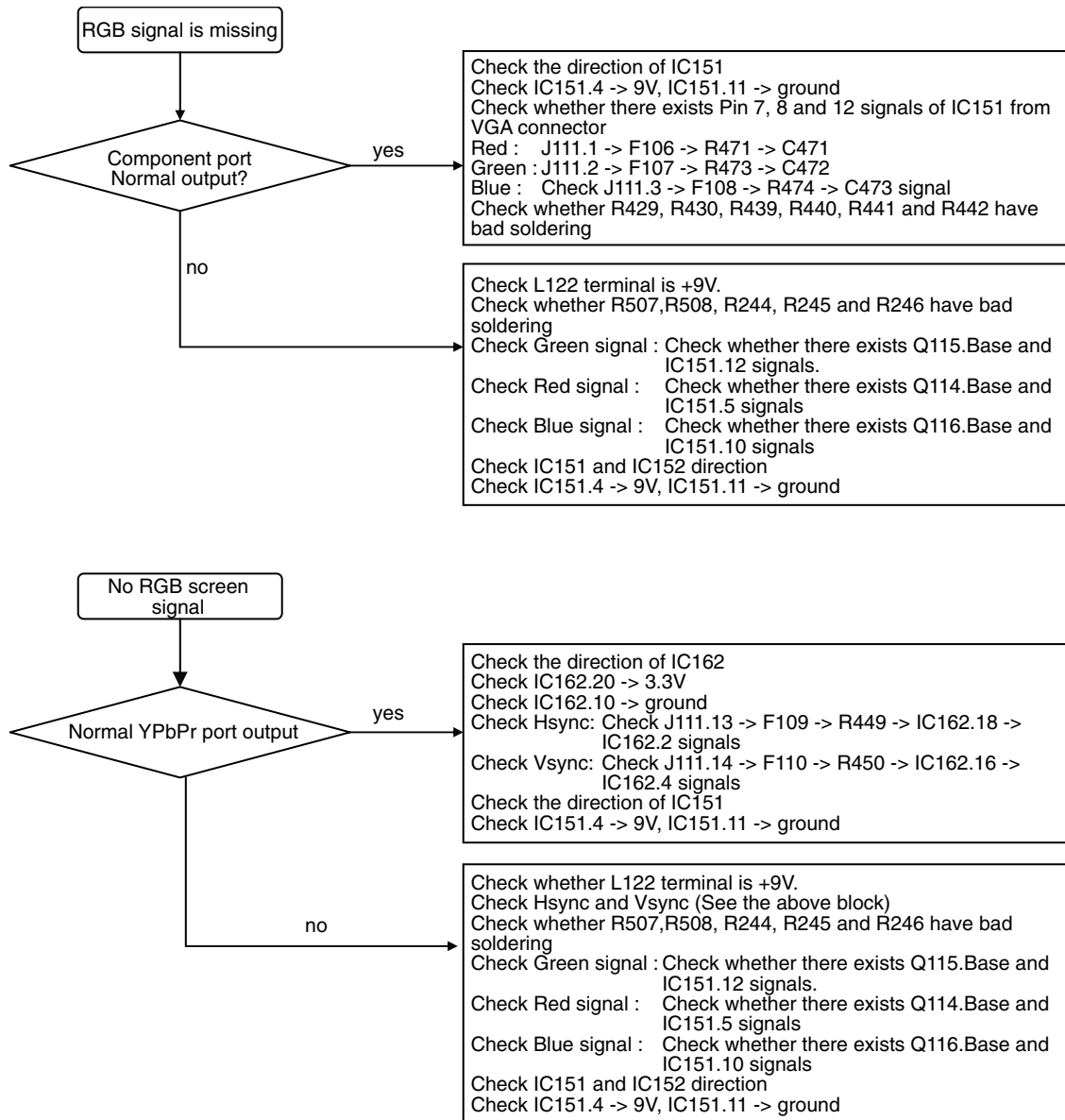


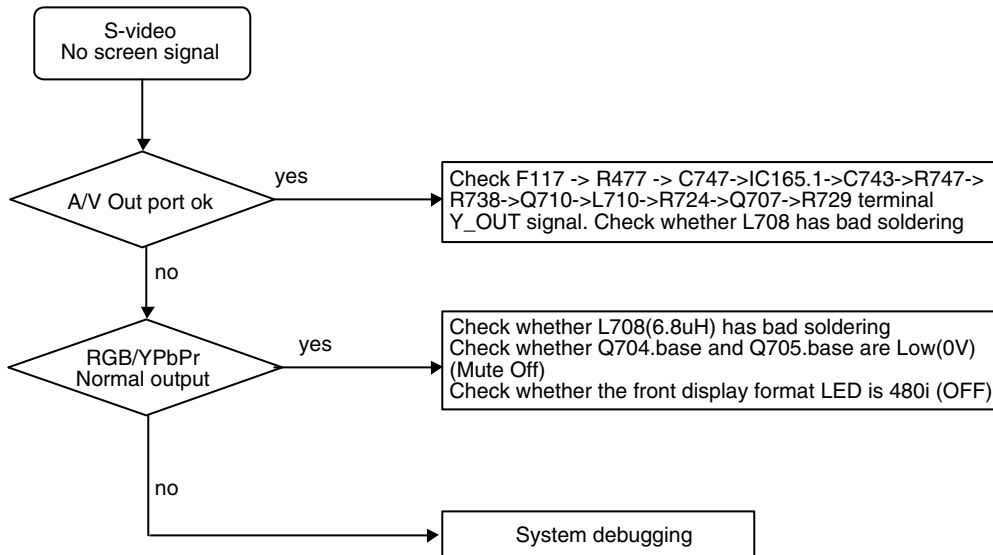
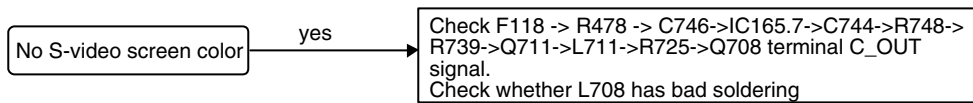
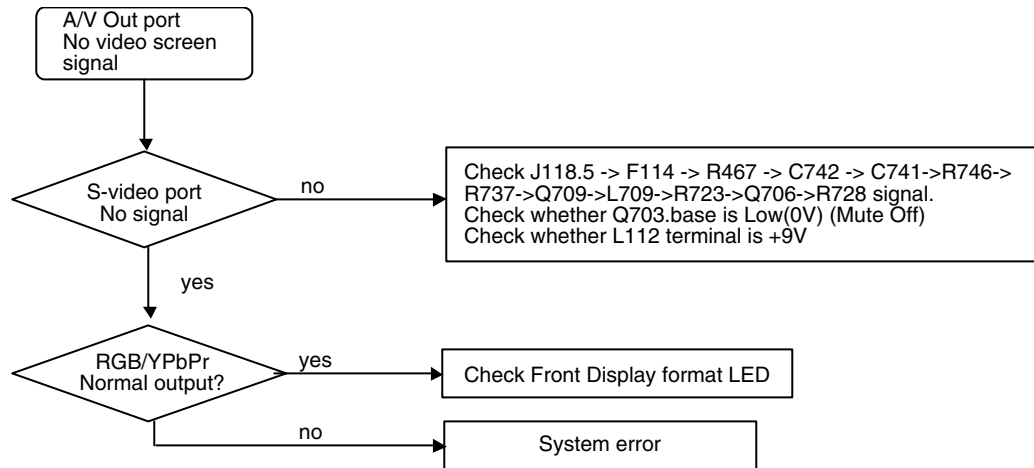
### 3) SYSTEM PART



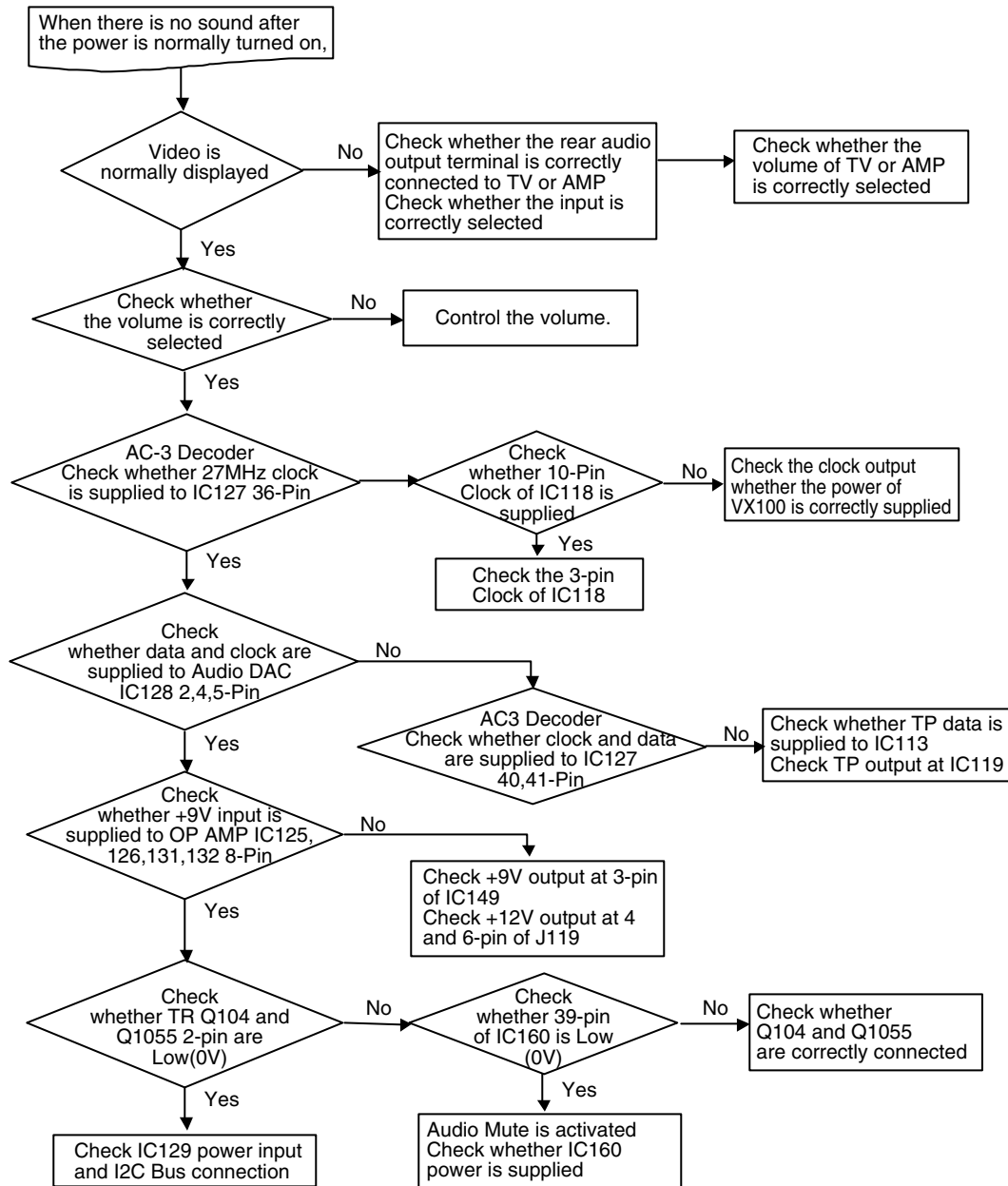
#### 4) VIDEO PART



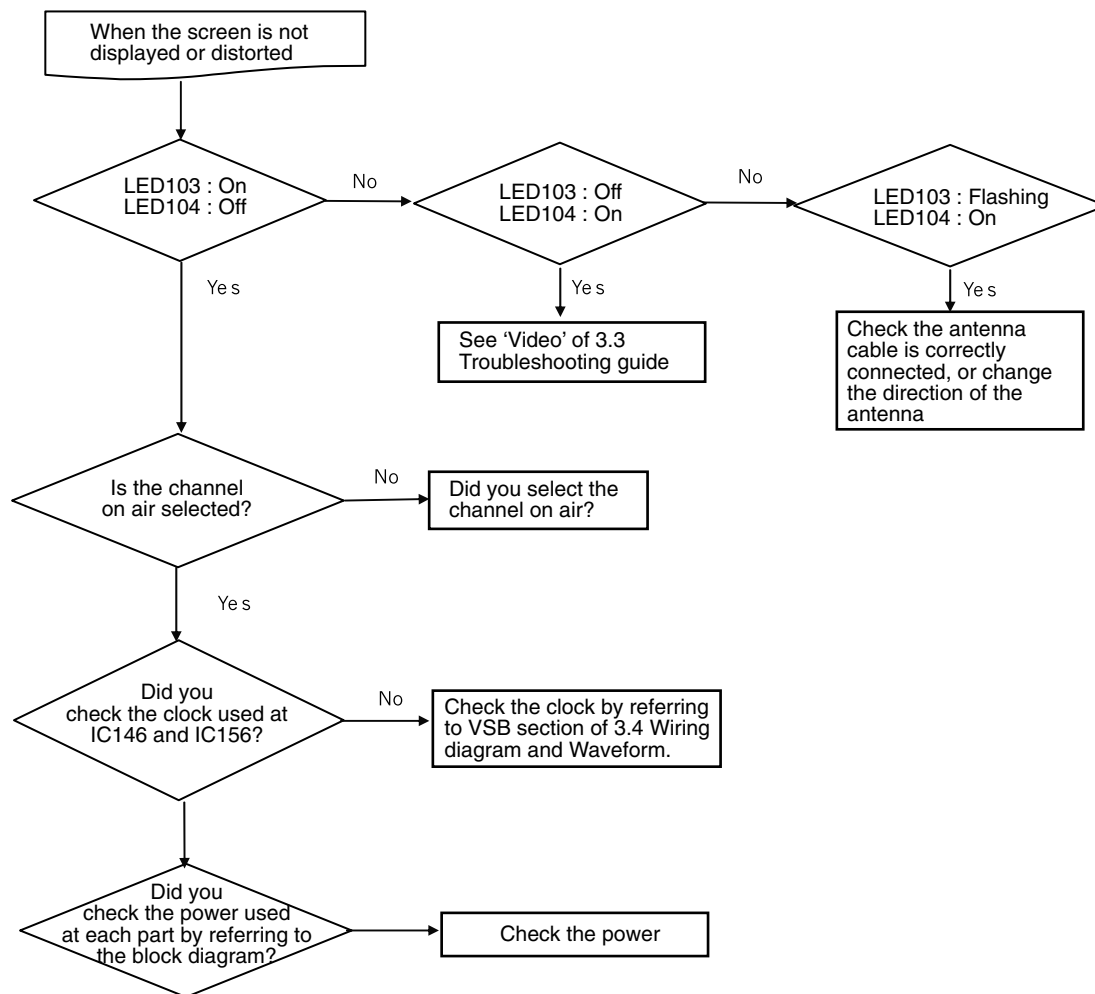




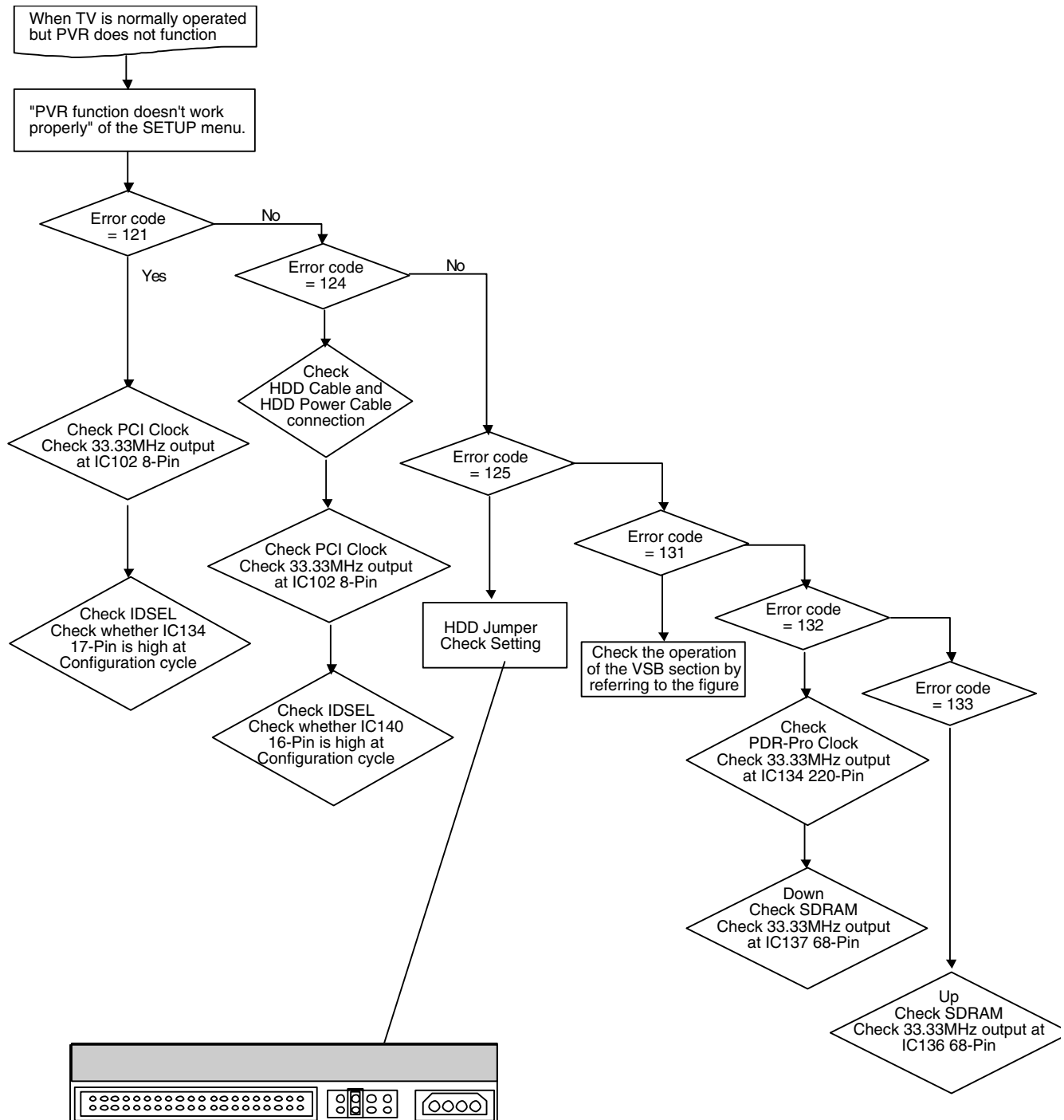
## 5) AUDIO PART



## 6) VSB PART



## 7) PVR PART



# MEMO

Handwriting practice lines consisting of 20 horizontal dotted lines.



## 5. VOLTAGE MEASURED VALUE

### 1) CAPACITOR

Capacity	Circuit No.	DTV		PVR		Reference Item
		(+)	(-)	Top/Bottom	Top/Bottom	
0.47uF	C746	3.158	0	3.157	0	
1uF	C288	4.79	0	4.79	0	
	C289	2.24	0	2.24	0	
	C398	7.03	0	7.02	0	
	C454	3.5	-2.82	3.5	-2.82	RS-232
	C455	0	-5.59	0	-5.59	Driver
	C456	4.96	0	4.96	0	
	C457	7.81	4.96	7.81	4.96	
	C458	6.64	2.86	6.64	2.86	
10uF/16	C100	2.48	0	2.49	0	
	C101	2.48	0	2.49	0	
	C107	3.23	0	3.22	0	
	C110	3.23	0	3.22	0	
	C207	3.23	0	3.22	0	
	C208	3.23	0	3.22	0	
	C209	3.23	0	3.22	0	
	C210	2.44	0	2.44	0	
	C213	2.44	0	2.44	0	
	C226	1.68	0	1.68	0	
	C254	9.04	0	9.04	0	
	C269	9.04	0	9.04	0	
	C272	9.04	0	9.04	0	
	C283	4.95	0	4.95	0	
	C293	9.04	0	9.04	0	
	C295	4.95	0	4.95	0	
	C297	4.54	0	4.54	0	
	C336	3.23	0	3.22	0	
	C357	3.23	0	3.23	0	
	C358	3.23	0	3.23	0	
	C397	7.03	0	7.02	0	
	C483	5.04	0	5.04	0	
	C484	12.25	0	12.25	0	
	C488	3.23	0	3.23	0	
	C492	4.96	0	4.96	0	
	C493	4.96	0	4.96	0	
	C496	2.52	0	2.52	0	
	C500	3.22	0	3.22	0	
	C503	5.04	0	5.04	0	
	C507	9.02	0	9.02	0	
	C511	5.81	0	5.81	0	
	C700	0	0	0	0	
	C705	5.36	0	5.35	0	
	C725	3.15	0	3.145	0	

Capacity	Circuit No.	DTV		PVR		Reference Item
		(+)	(-)	Top/Bottom	Top/Bottom	
22uF/16	C739	4.78	0	4.78	0	
	C211	3.22	0	3.21	0	
	C212	2.43	0	2.43	0	
	C249	4.5	2.31	4.5	2.31	
	C250	4.5	2.31	4.5	2.31	
	C299	3.86	0	3.86	0	
	C302	3.86	0	3.86	0	
	C305	4.61	0	4.61	0	
	C306	4.61	0	4.61	0	
	C369	3.23	0	3.22	0	
	C379	12.26	0	12.25	0	
	C380	5.79	0	5.78	0	
	C383	5.04	0	5.03	0	
	C385	5.03	0	5.03	0	
	C386	9.01	0	9.01	0	
	C395	9.01	0	9.01	0	
	C412	2.43	0	2.44	0	
	C428	3.24	0	3.21	0	
	C441	12.25	0	12.25	0	
	C443	9.05	0	9.03	0	
	C497	2.5	0	2.497	0	
	C505	9.03	0	9.03	0	
	C510	9.02	0	9.02	0	
	C704	2.41	0	2.41	0	
47uF	C278	4.59	4.49	4.49	4.57	
	C279	4.59	4.49	4.49	4.57	
	C301	8.74	0	8.74	0	
	C310	3.23	0	3.23	0	
	C318	3.23	0	3.23	0	
	C600	5.04	0	5.03	0	
	C607	5.03	0	5.03	0	
100uF	C244	3.13	0	3.12	0	
	C487	3.24	0	3.23	0	
	C489	4.96	0	4.96	0	
	C490	3.24	0	3.23	0	
	C495	2.52	0	2.52	0	
	C509	9.02	0	9.02	0	
	C609	5.03	0	5.03	0	
220uF	C237	3.19	0	3.12	0	
	C252	3.23	0	3.22	0	
	C393	5	0	5	0	
	C394	5.01	0	5.01	0	
	C712	4.92	0	4.91	0	

Capacity	Circuit No.	DTV		PVR		Reference Item
		(+)	(-)	Top/Bottom	Top/Bottom	
470uF	C273	3.23	0	3.22	0	
	C451	2.26	0.98	2.23	1.17	
	C452	2.26	0.98	2.23	1.17	
	C453	2.26	0.98	2.24	1.16	
	C471	4.53	0	4.53	0.2	
	C472	4.53	0	4.53	1.3	
	C473	4.53	0	4.53	0.3	
	C474	4.53	0	4.53	0	
	C475	4.53	0	4.53	0	
	C476	4.53	0	4.53	0	
	C741	1.748	0	1.748	0	
	C742	3.43	0	3.431	0	
	C743	1.796	0	1.796	0	
	C747	3.201	0	3.202	0	

## 2) DIODE

Capacity	Circuit No.	DTV		PVR		Reference Item
		(+)	(-)	Top/Bottom	Top/Bottom	
SD05	D100	0	0	0	0	
	D101	-0.75	0	-0.75	0	
	D102	0.09	0	0.09	0	
	D103	3.23	0	3.23	0	
	D104	3.23	0	3.23	0	
	D105	3.23	0	3.23	0	
	D106	3.23	0	3.23	0	
	D107	3.09	0	3.09	0	
	D108	3.2	0	3.2	0	
	D119	0	0	0	0	
	D120	0	0	0	0	
	D121	0	0	0	0	
	D122	0	0	0	0	
	D123	0	0	0	0	
	D124	0	0	0	0	
	D125	2.77	0	2.77	0	
	D126	0	2.77	0	2.77	
	D127	2.77	0	2.77	0	
	D128	0.11	0	0.11	0	
	D129	2.77	0	2.77	0	
	D131	0.11	0	0.11	0	
	D132	1.64	0	1.64	0	
	D133	-0.718	0	-0.71	0	
	D134	2.77	3.22			
	D135	2.77	3.22			
	D136	2.77	3.22			
	D137	0.11	2.94			
	D138	2.77	3.22			
	D140	0.18	0.29			
	D141	0.011	0			
	D142	0.09	0			
	D143	3.17	0			
	D144	3.17	0			
	D145	3.2	0			
	D146	3.17	0			
	D147	3.17	0			
	D148	0.008	0			
LED	LED103	2.8	3.21	2.81	3.2	
	LED104	0.17	2	0.18	2.01	
	LED105	0	1.68	0	1.68	

Part Name	Circuit No.	Circuit No.			PVR			Reference Item
		1	2	3	1	2	3	
SLUV2.8	D109	0		0.33	0		0	Video
	D110	0		0.24	0		0	Signal
	D111	0		0.27	0		0	
	D112	0		0.01	0		0	
	D113	0		0	0		0	
	D114	0		0.01	0		0	
	D115	0		0.15	0		0	
	D116	0		0	0		0	
	D117	0		0.08	0		0	

### 3) TRANSISTOR

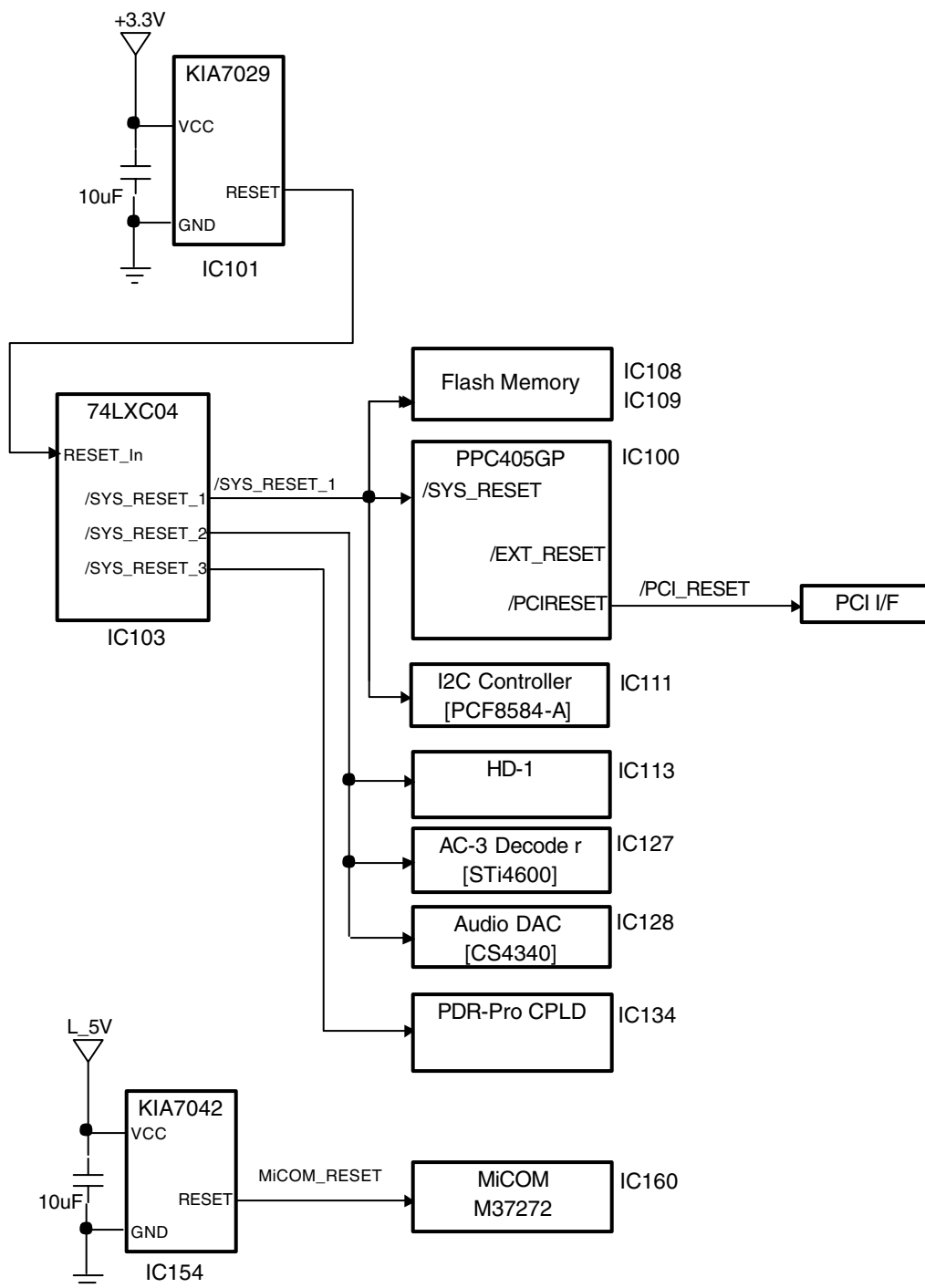
Part Name	Circuit No.	Circuit No.			PVR			Reference Item
		E(S)	B(G)	C(D)	E(S)	B(G)	C(D)	
KRC101S	Q703	0	4.8	0.02	0	4.8	0.02	
	Q704	0	4.8	0.02	0	4.8	0.02	
	Q705	0	4.81	0.02	0	4.81	0.02	
KTA1504	Q114	2.05	1.34	0.005	2.02	1.32	0.005	
	Q115	1.97	1.28	0.005	2.04	1.39	0.005	
	Q116	1.95	1.37	0.005	1.97	1.43	0.005	
	Q706	1.51	0.86	0	1.51	0.86	0	
	Q707	1.52	0.87	0	1.52	0.87	0	
	Q708	1.59	0.95	0	1.59	0.95	0	
	Q709	0.81	1.47	0	0.81	1.47	0	
	Q710	0.8	1.52	0	0.8	1.52	0	
	Q711	0.81	1.59	0	0.81	1.59	0	
KTC3875	Q108	0	0.003	0.001	0	0.025	0	
	Q109	0	0.003	0.001	0	0.015	0	
	Q110	0	0.003	0.001	0	0.025	0	
	Q111	0	0.003	0.001	0	0.012	0	
BF799W	Q112	1.81	1.1	6.24	1.81	1.1	6.24	
	Q113	1.09	0.365	6.91	1.09	0.365	6.91	
KRA102S	Q102	9.02	0.025	9.01	9.02	0.025	9.01	
	Q103	9.02	0.025	9.01	9.02	0.025	9.01	
	Q104	3.22	3.23	0.08	3.21	3.22	0.002	
	Q105	3.22	3.23	0.04	3.21	3.22	0.002	
KRC102S	Q119	0.005	0.015	1.07	0.005	0.015	1.15	
	Q120	0.005	0.015	1.02	0.005	0.015	1.16	
	Q121	0.005	0.015	1.08	0.005	0.015	1.13	
	Q702	0	2.79	0.18	0	2.79	0.18	
BSS83	Q100	4.95	3.15	3.15	4.95	3.15	3.15	
	Q101	4.95	3.15	3.15	4.95	3.15	3.15	

# MEMO

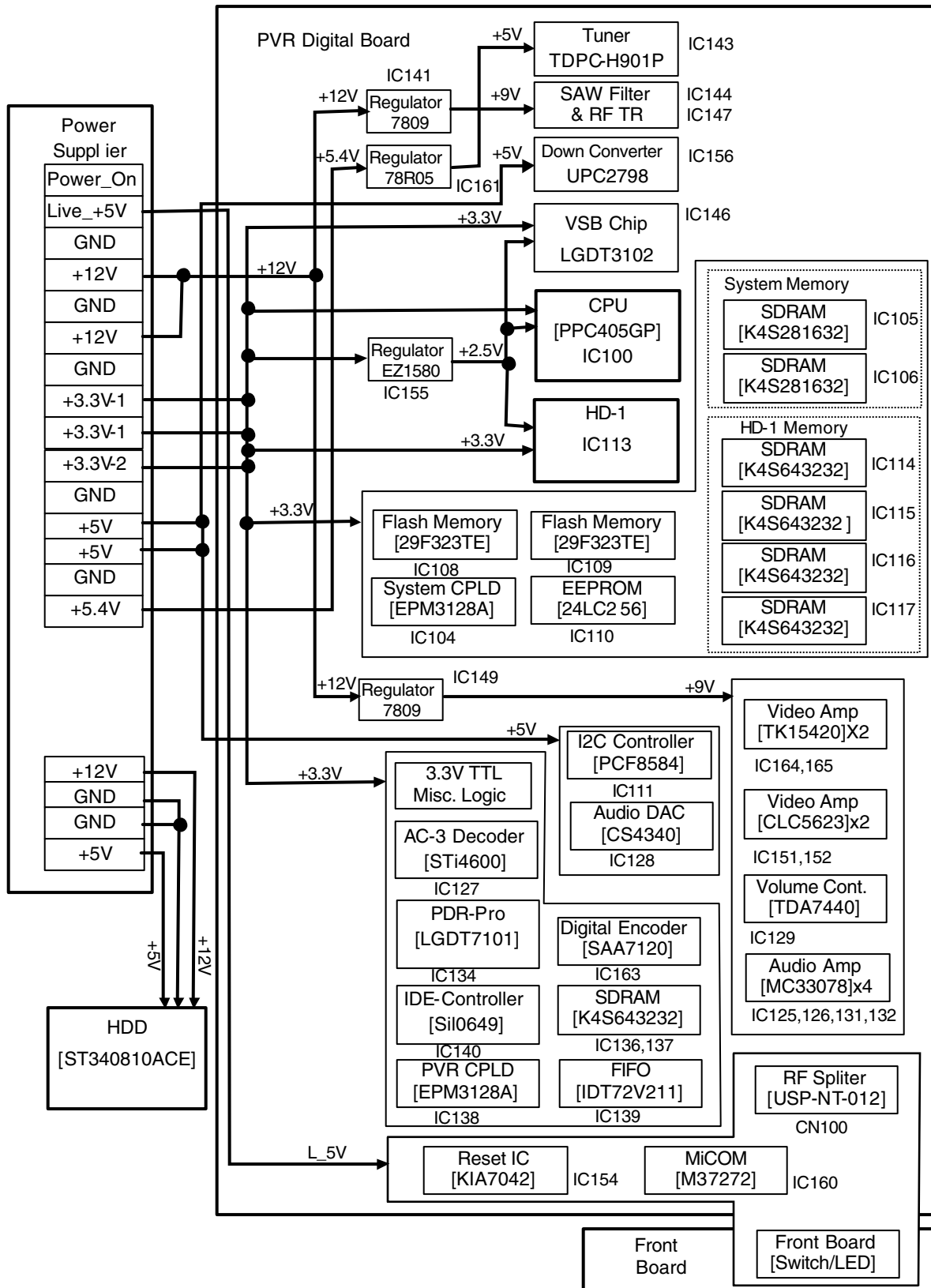
Handwriting practice lines consisting of 20 horizontal dotted lines.

## 9. REFERENCE

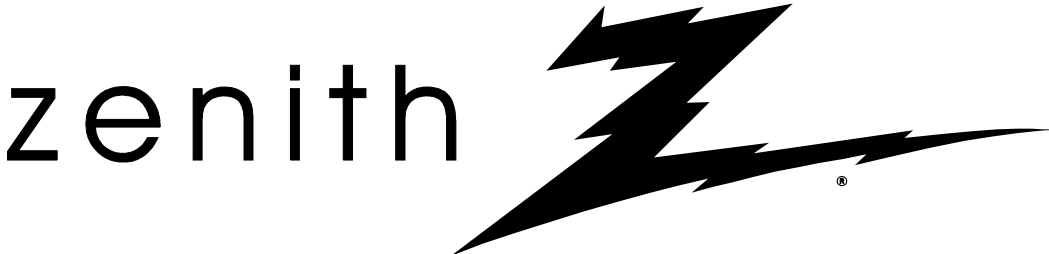
### 1) RESET BLOCK DIAGRAM



## 2) POWER BLOCK DIAGRAM

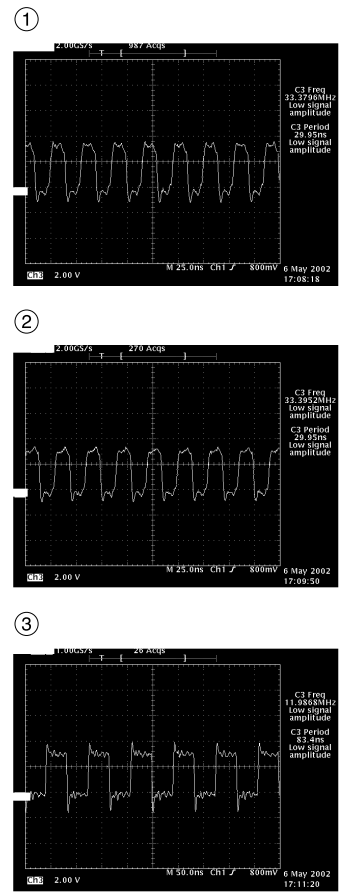
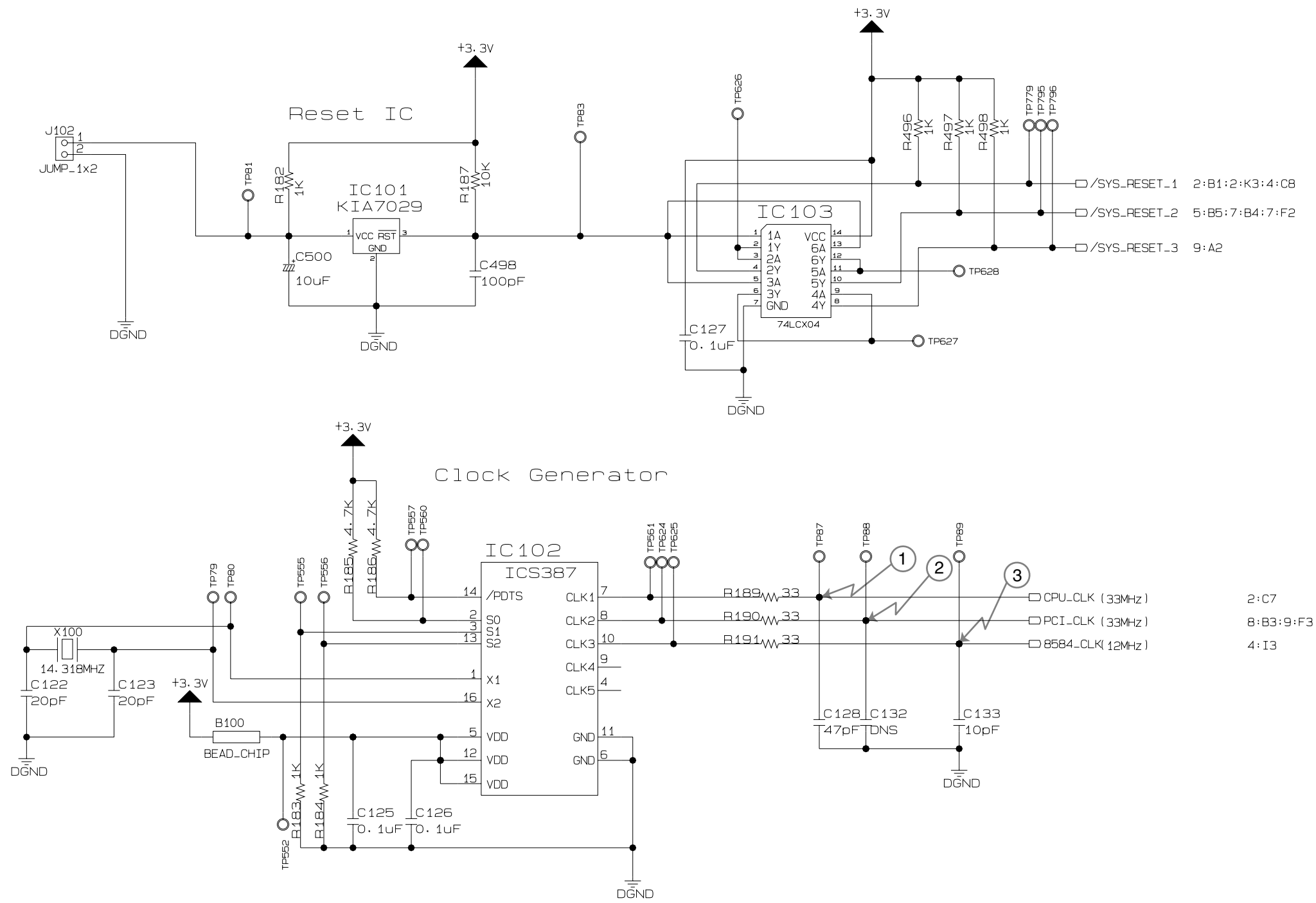




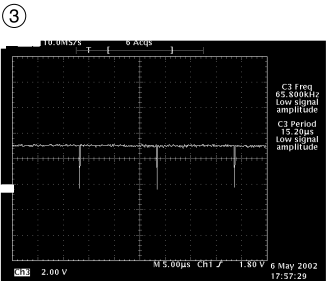
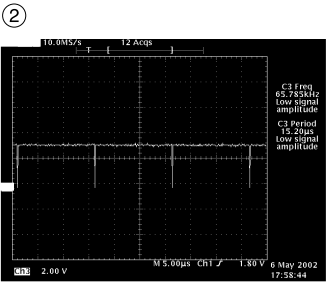
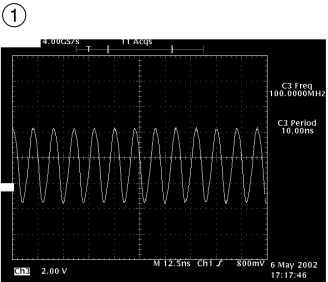
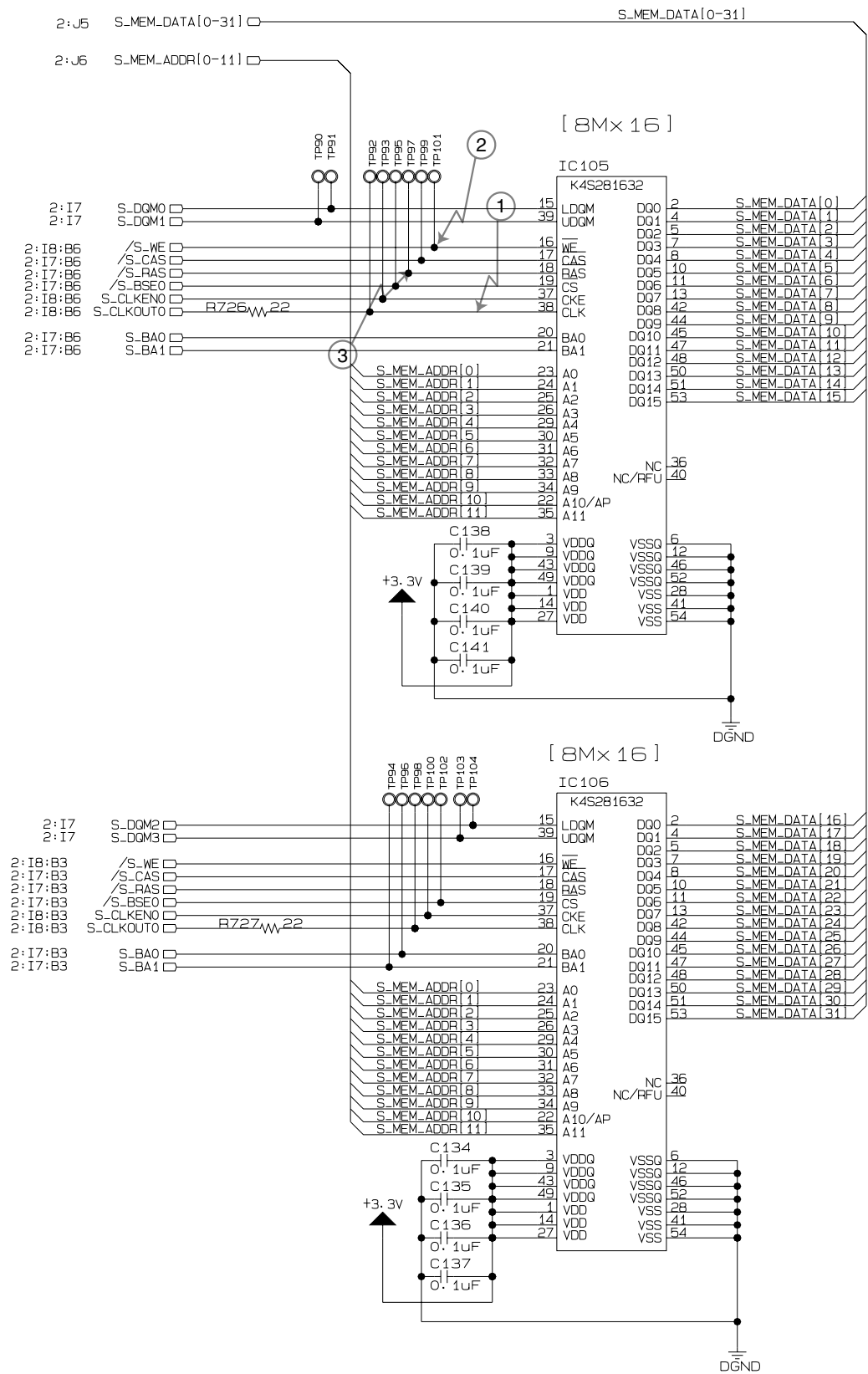


4. WAVEFORMS

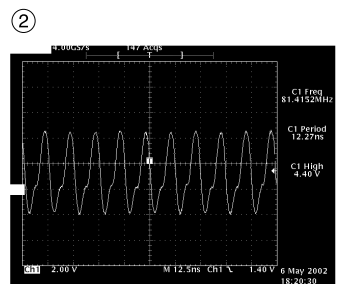
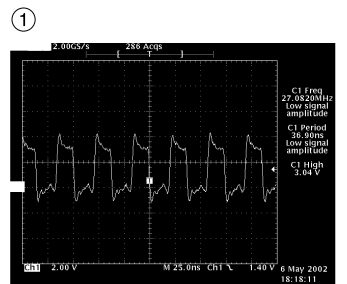
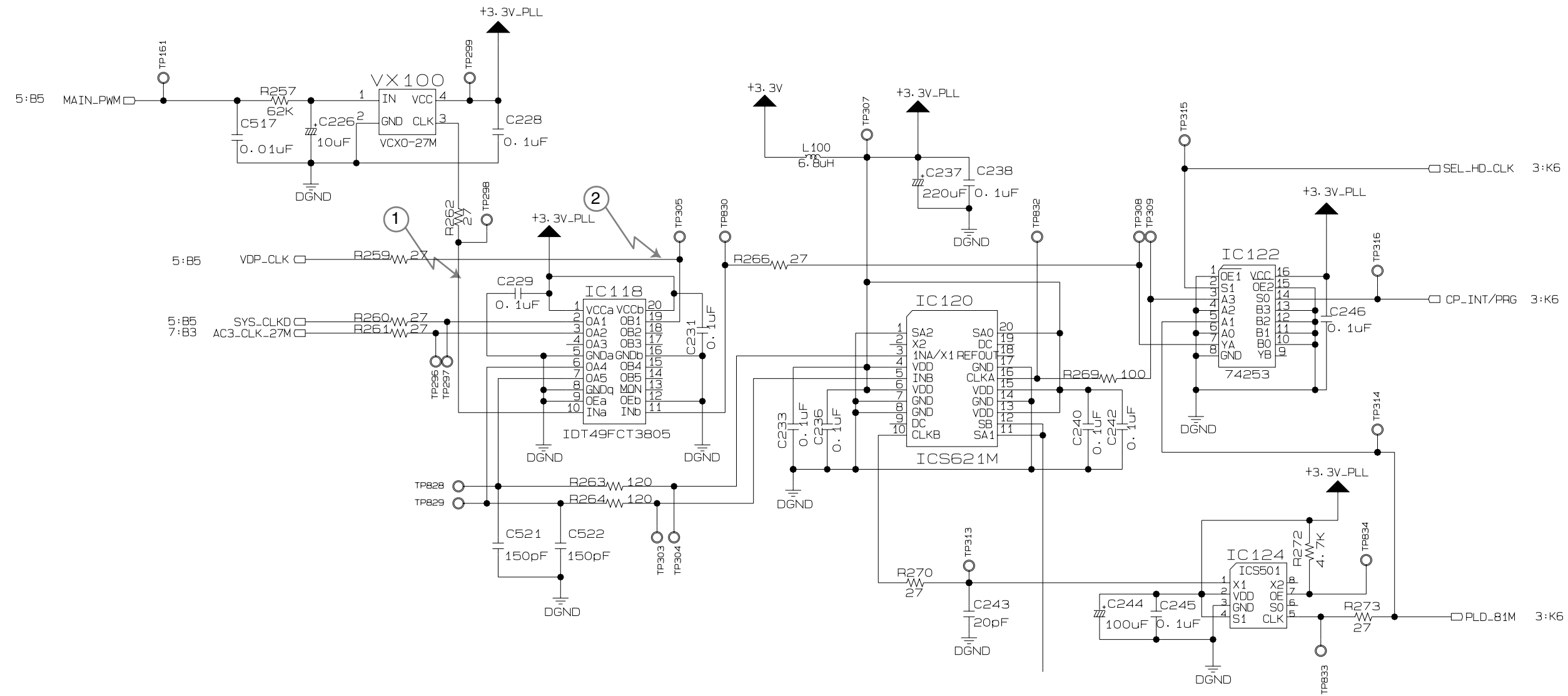
1) DIGITAL SYSTEM [CLOCK GENERATOR] PART



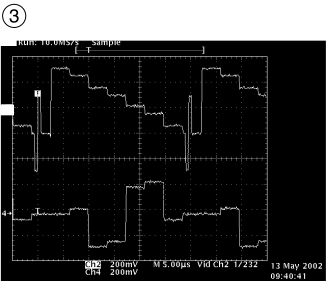
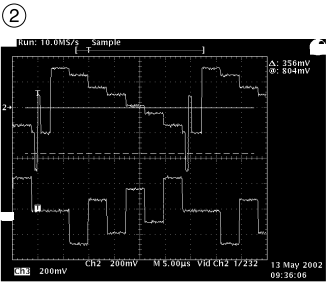
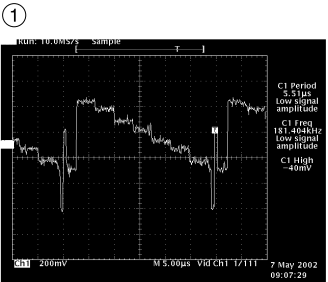
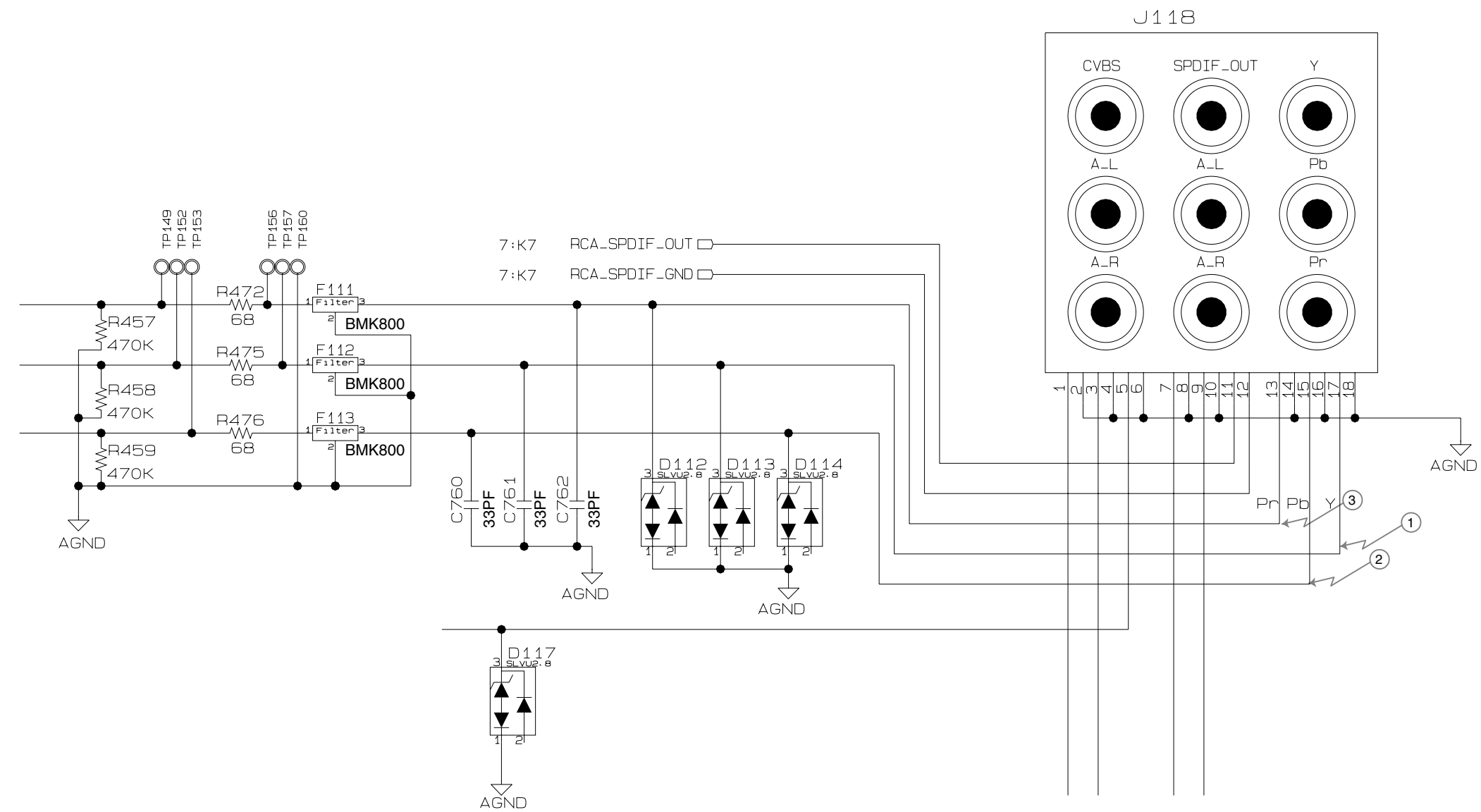
2) DIGITAL SYSTEM [SYSTEM MEMORY] PART



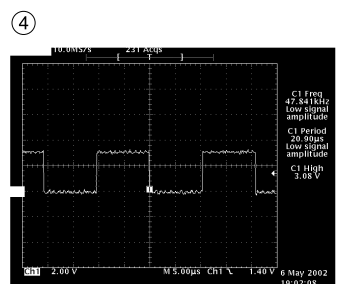
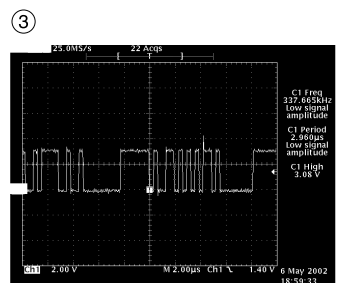
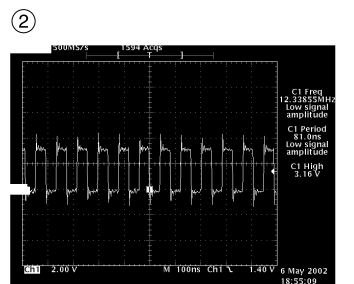
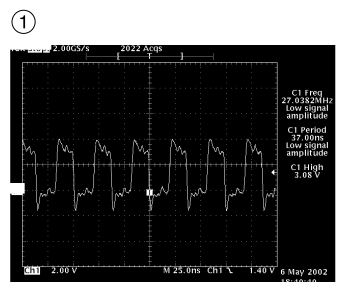
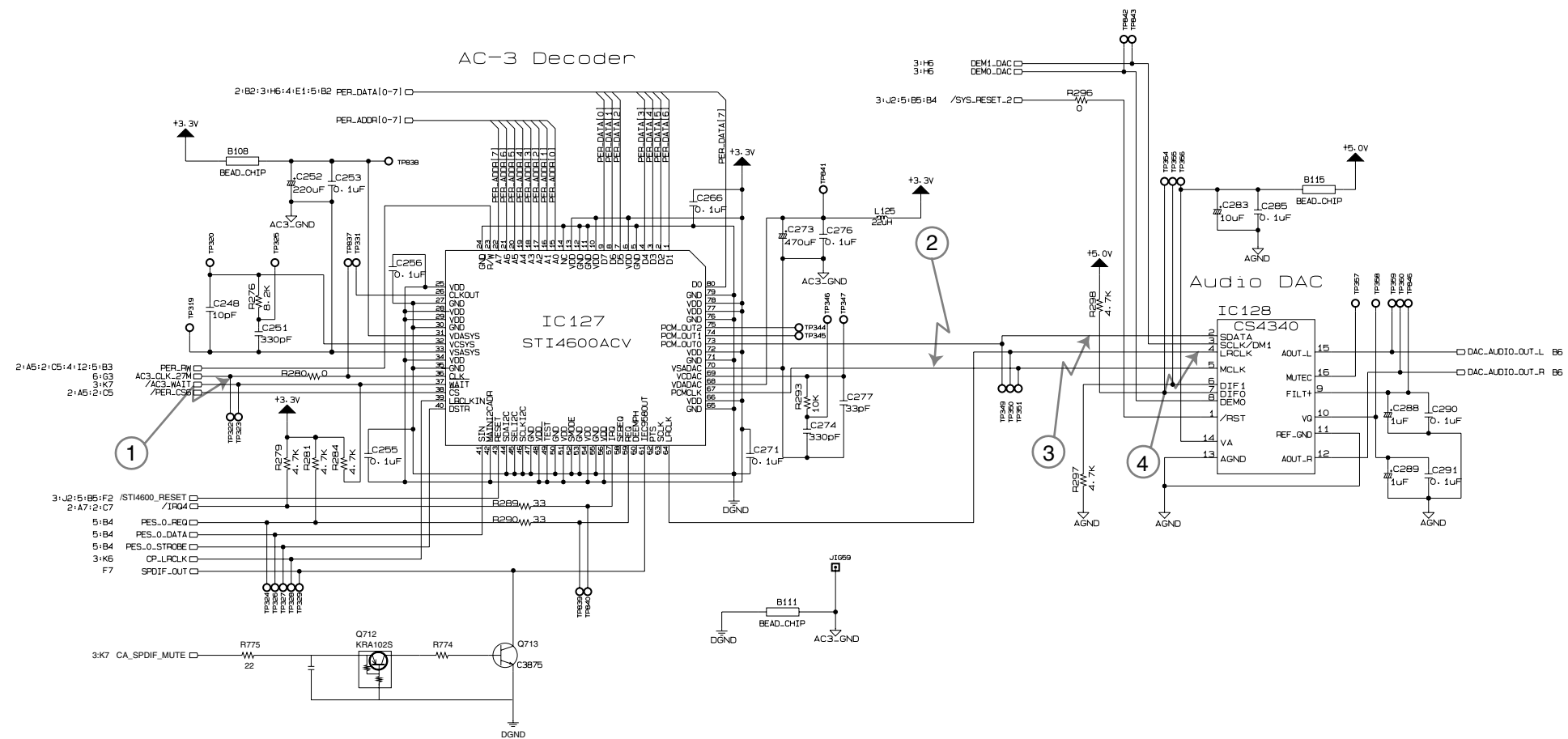
3) VIDEO [PLL] PART



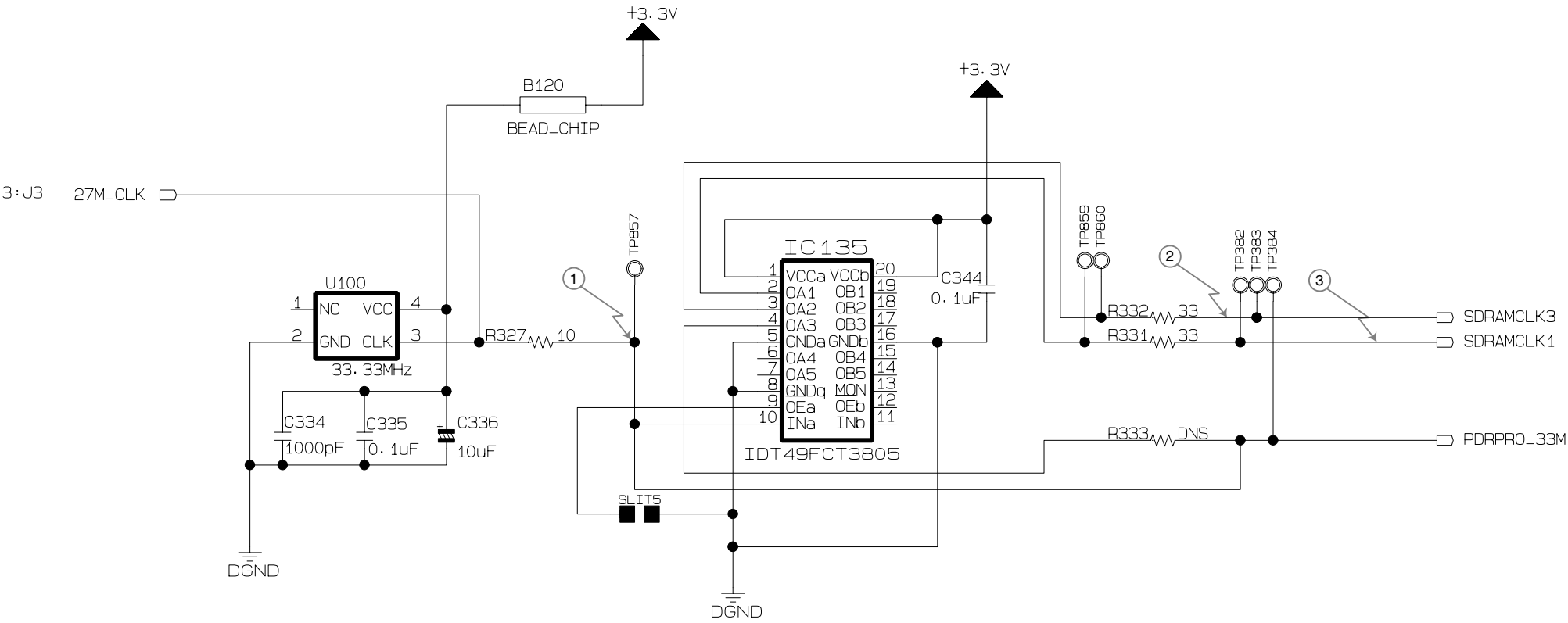
4) VIDEO [OUTPUT CONNECTOR] PART



## 5) AUDIO PART

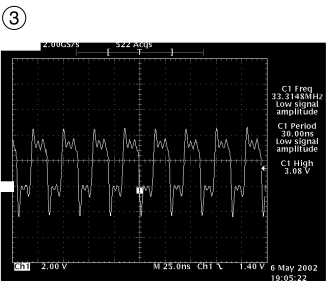
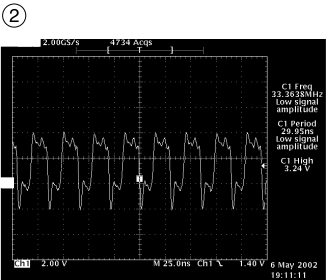
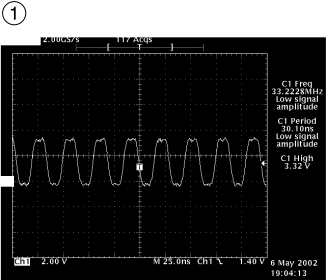


6) PVR [CLOCK] PART

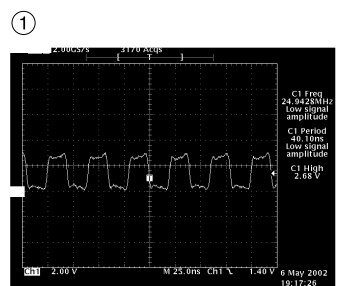
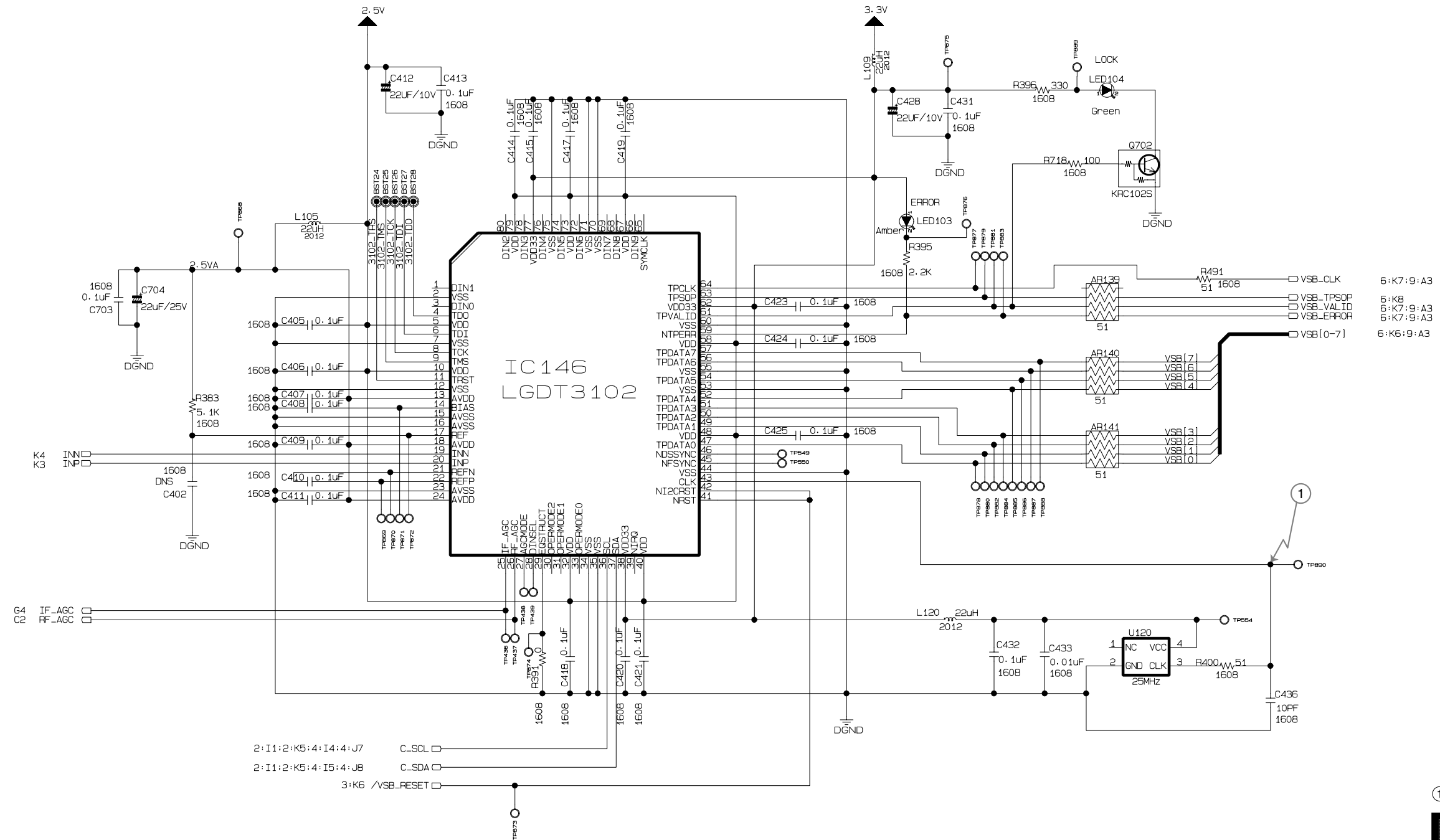


I2  
I5

G3



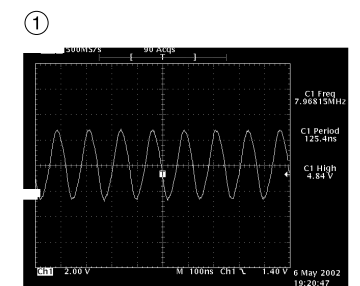
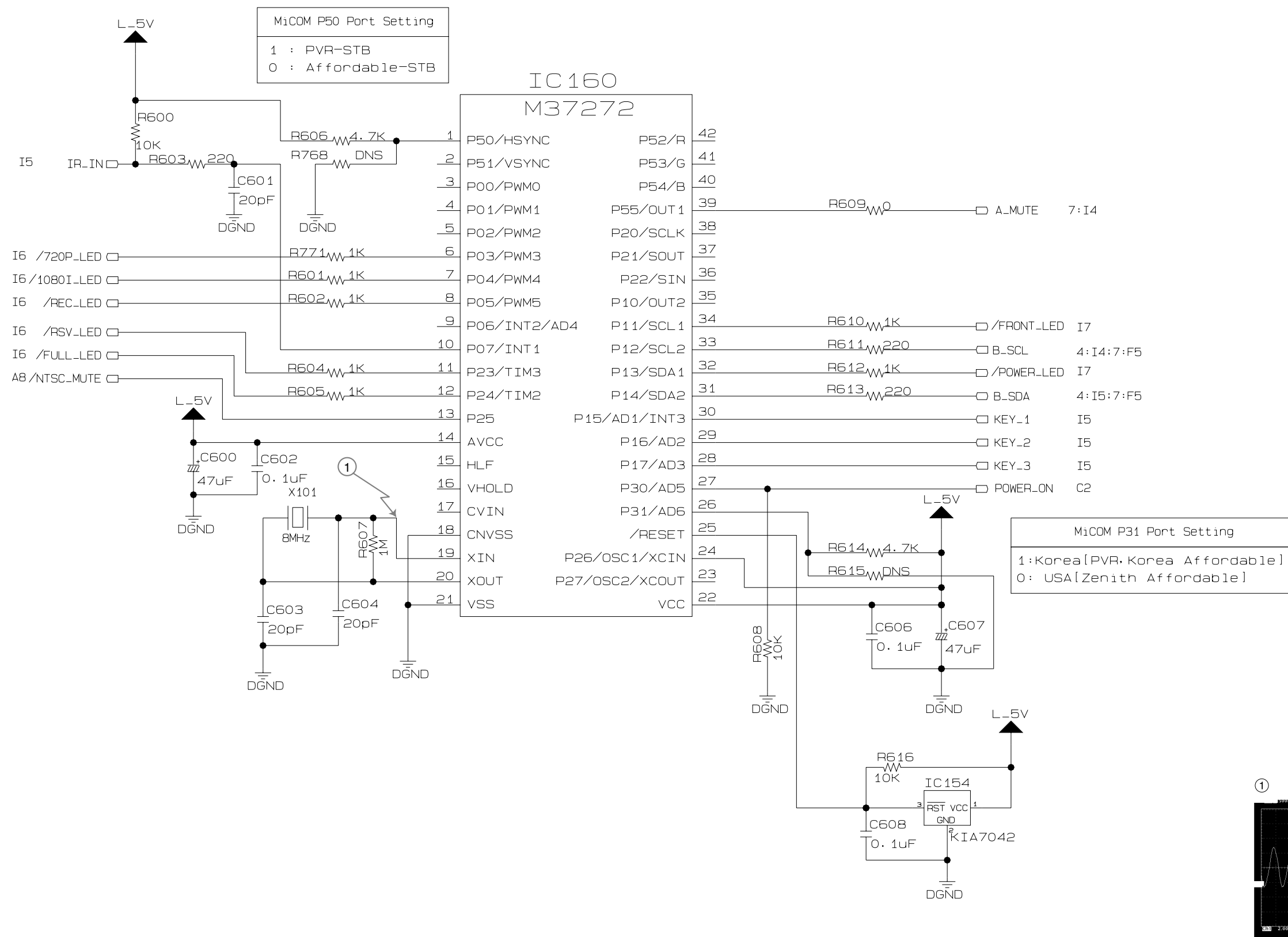
## 7) VSB [VSB DECODER] PART







9) MICOM [DOWN CONVERTER] PART



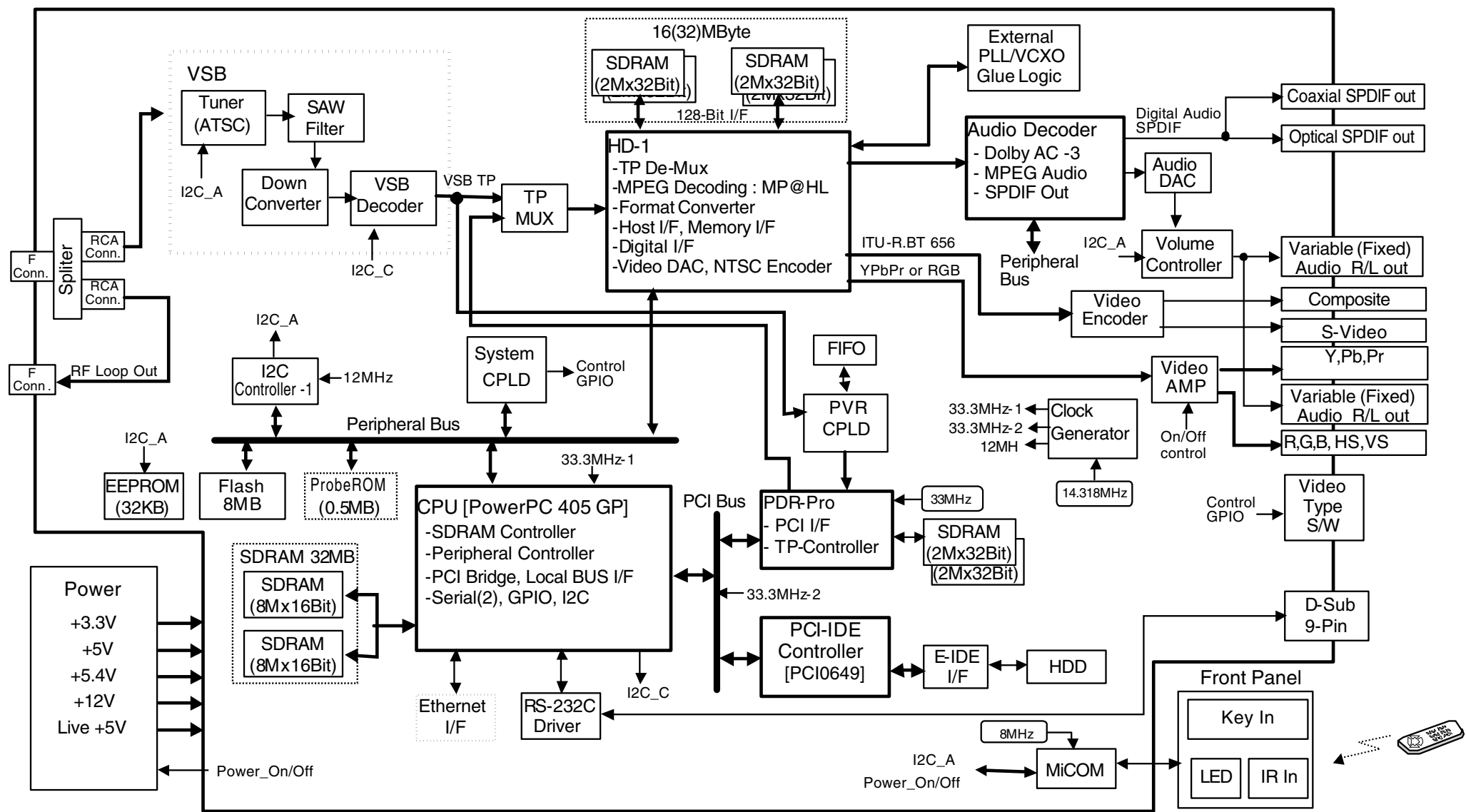
MEMO

Lined area for writing on the left page.

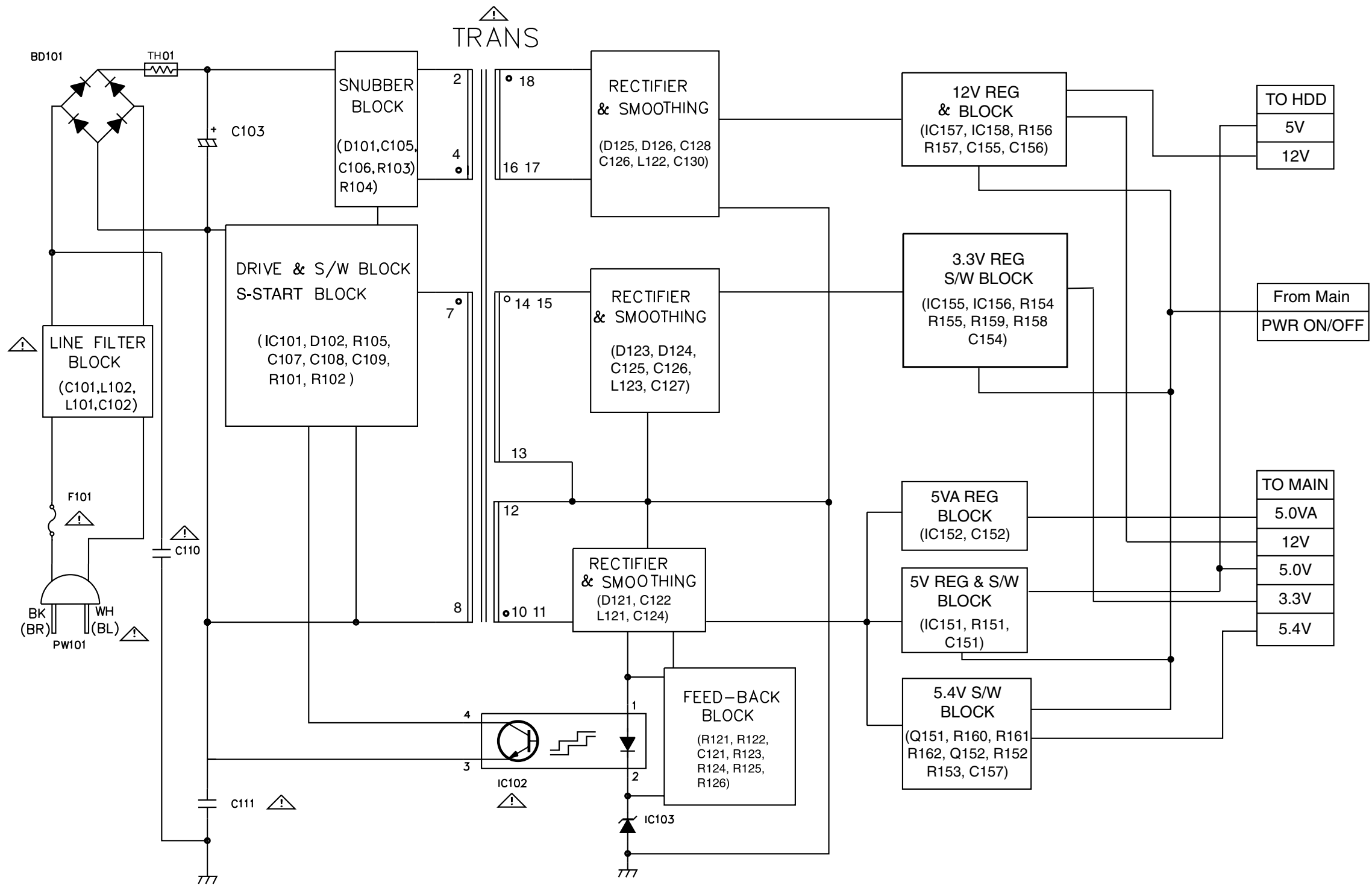
MEMO

Lined area for writing on the right page.

6. BLOCK DIAGRAMS  
1) OVERALL BLOCK DIAGRAM

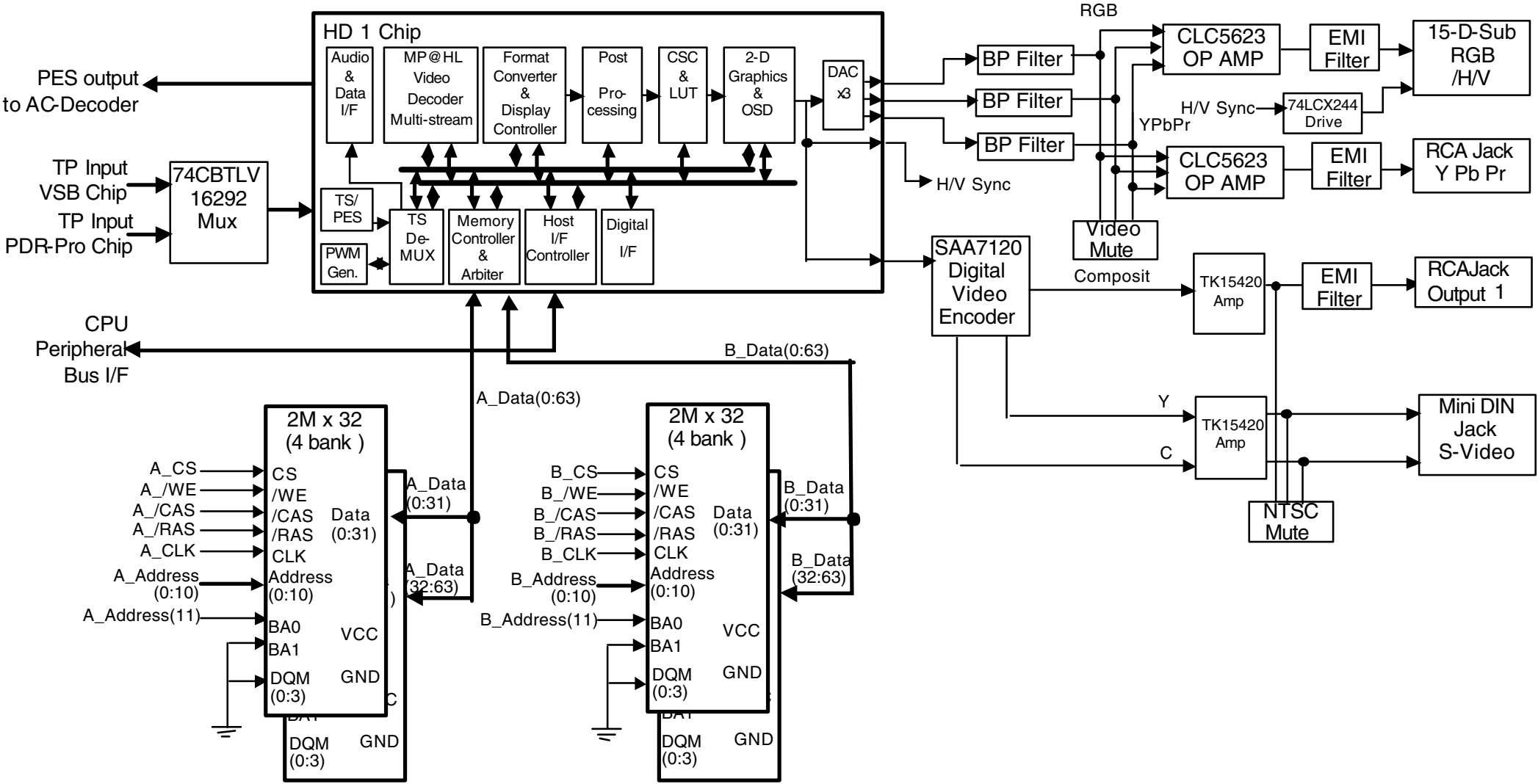


2) POWER BLOCK DIAGRAM

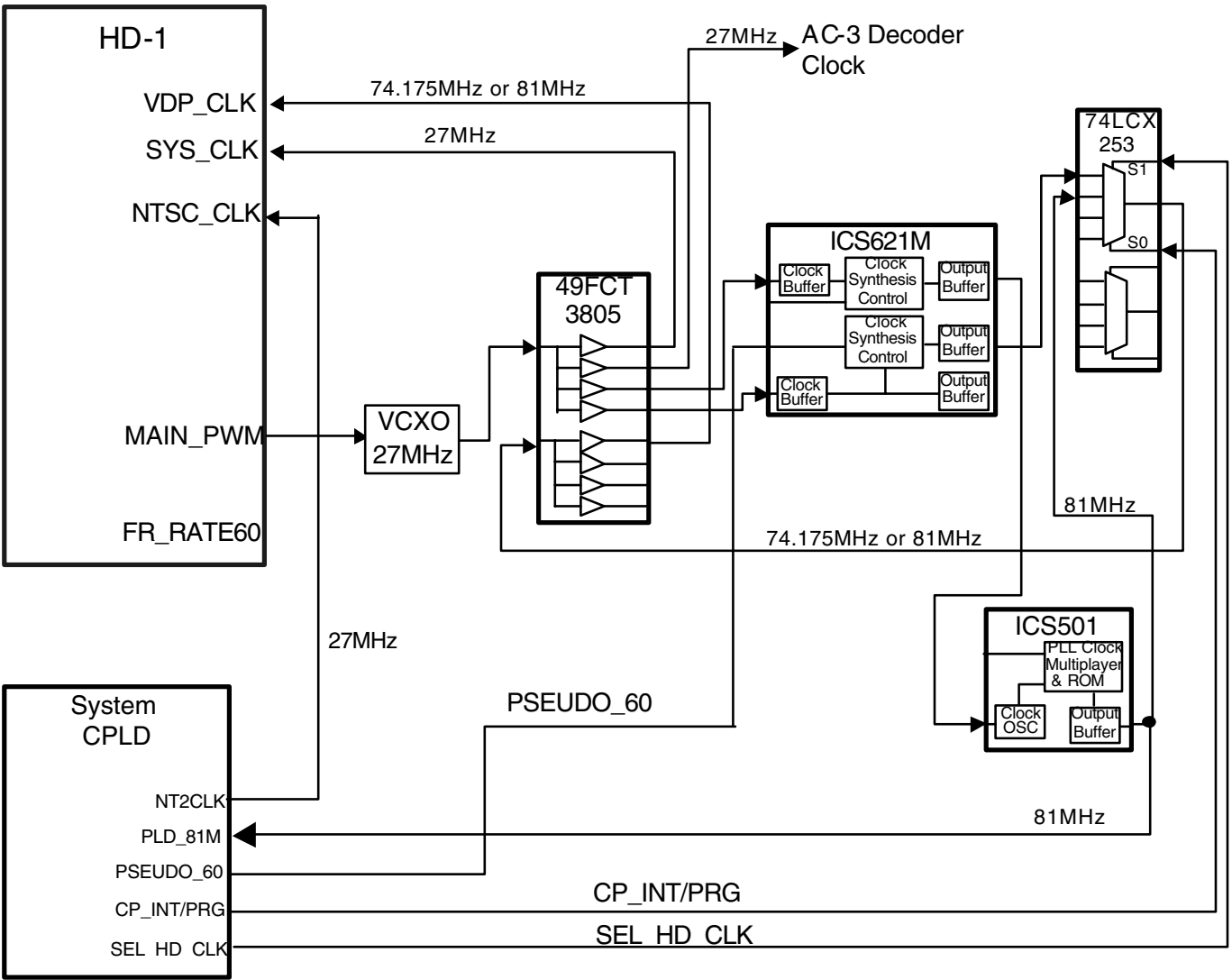




4) VIDEO BLOCK DIAGRAM

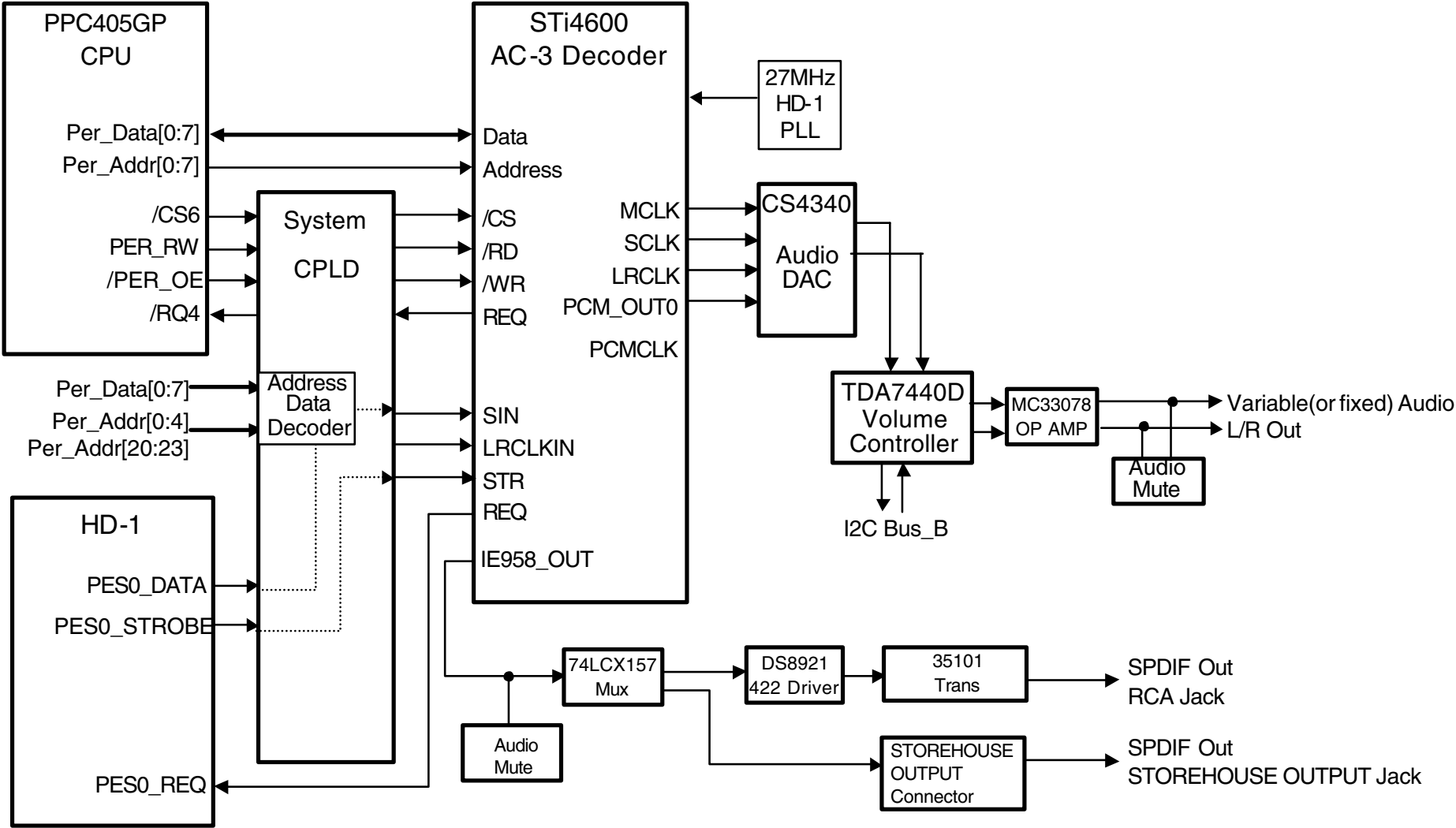


5) VIDEO PLL BLOCK DIAGRAM

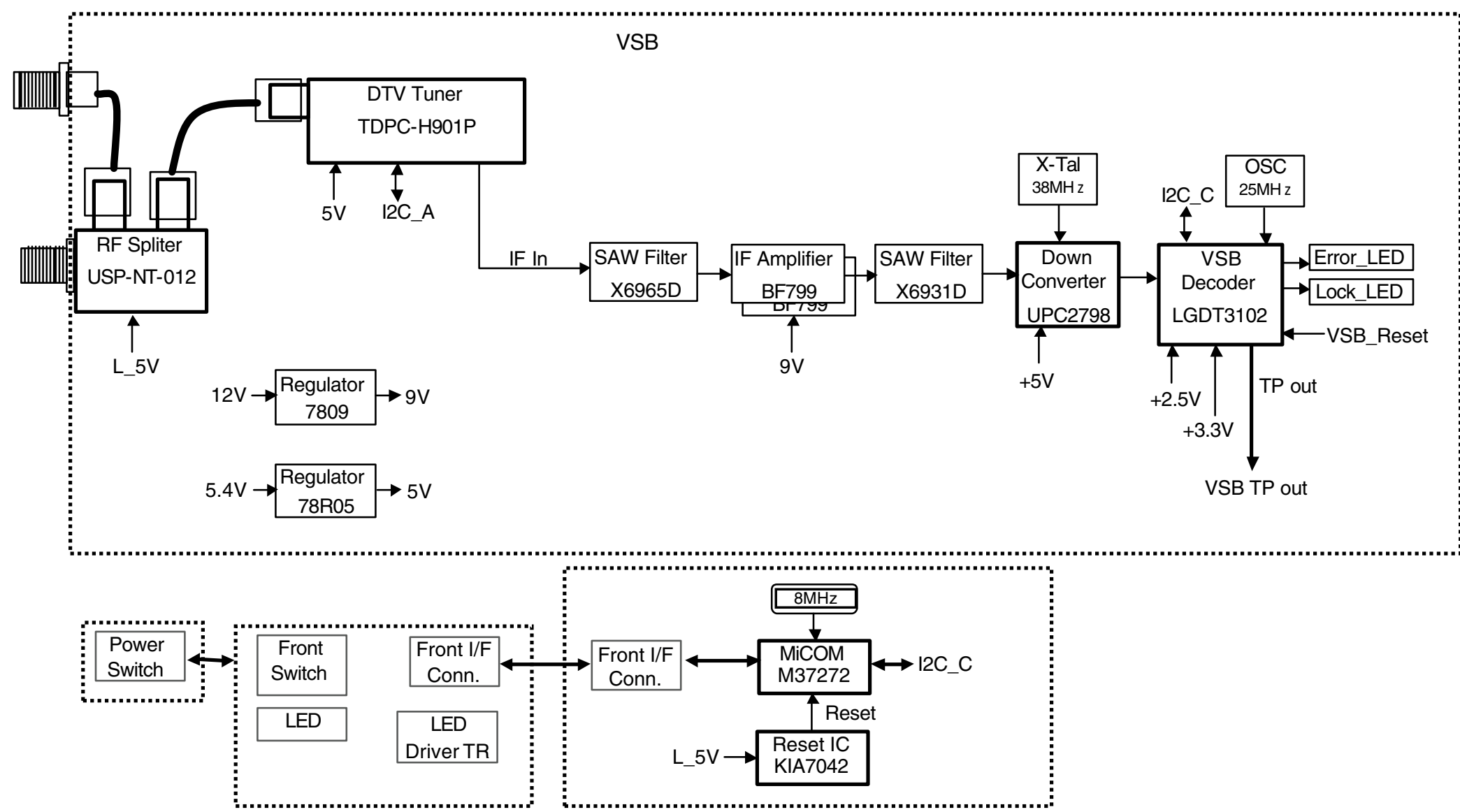




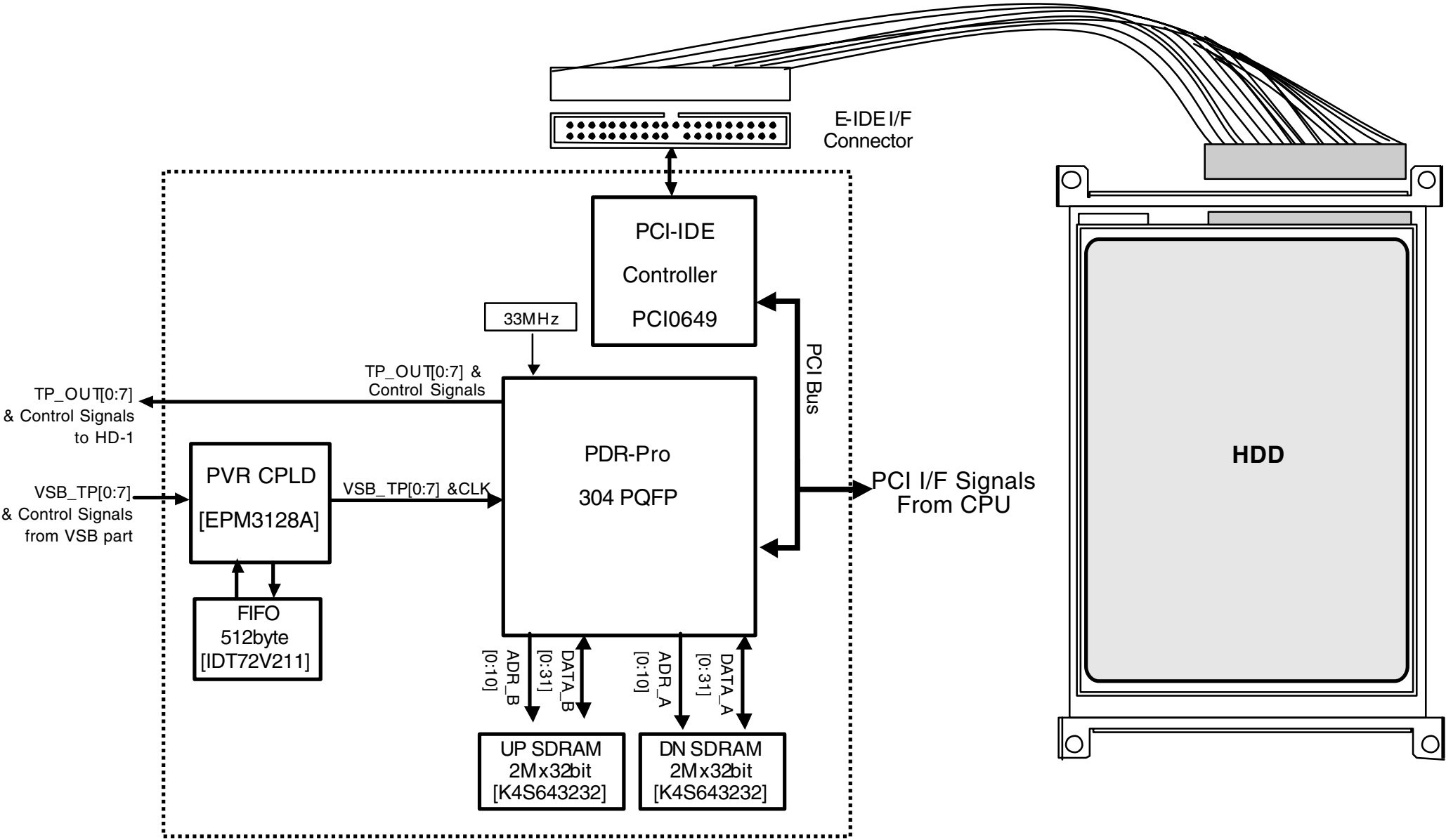
6) AUDIO BLOCK DIAGRAM



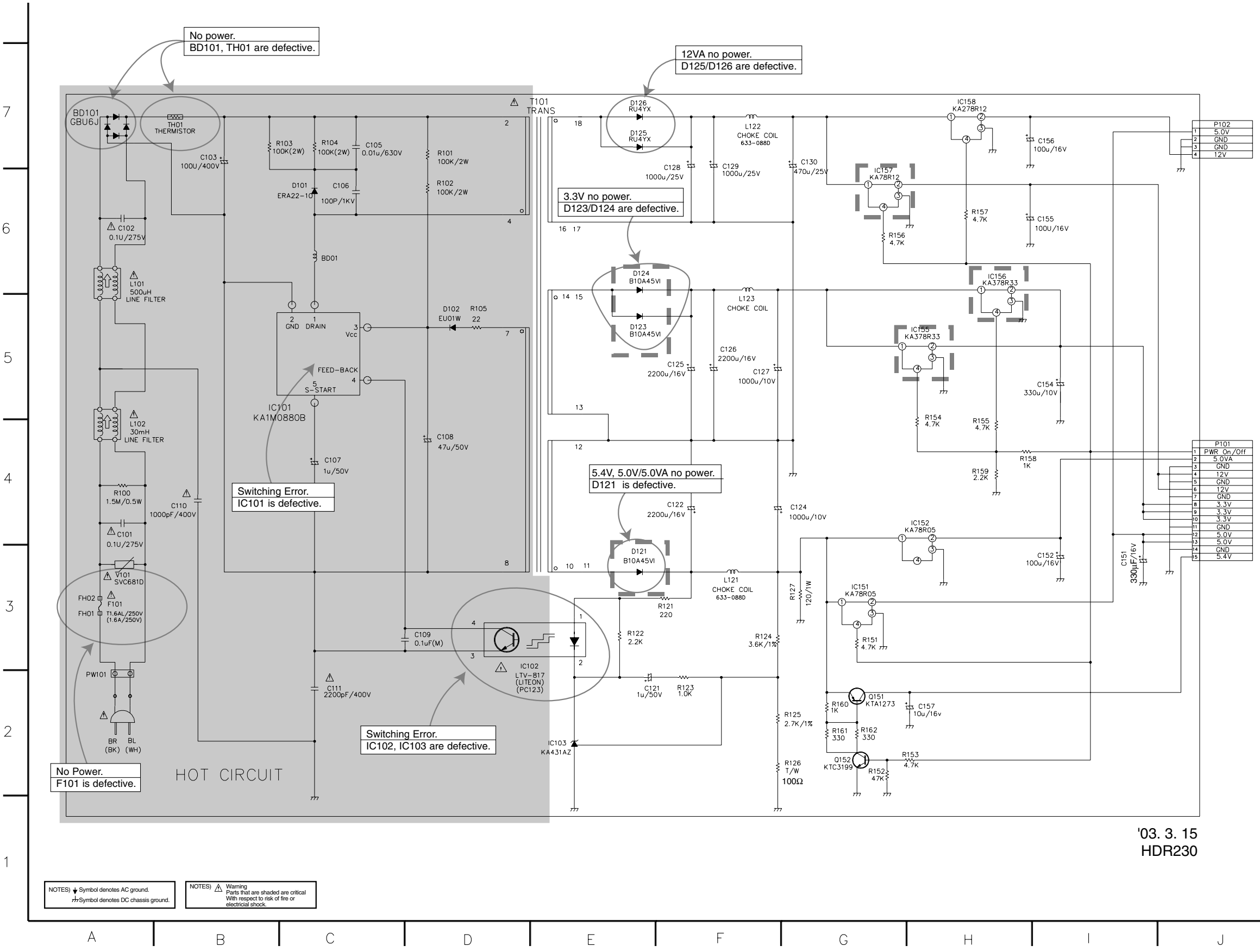
7) TUNER/VSF & MICOM BLOCK DIAGRAM



8) PVR BLOCK DIAGRAM



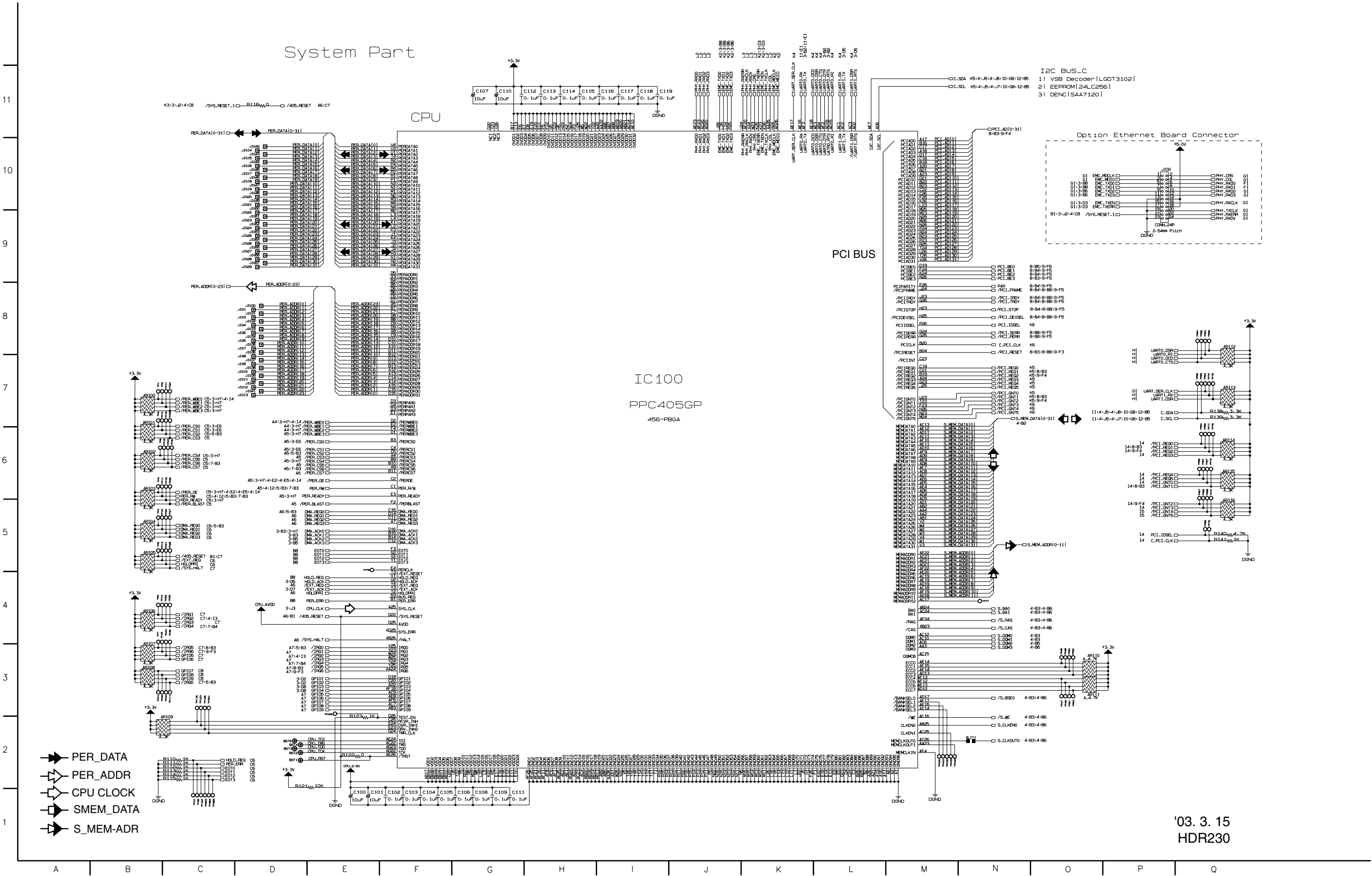
7. CIRCUIT DIAGRAMS  
1) POWER CIRCUIT DIAGRAM



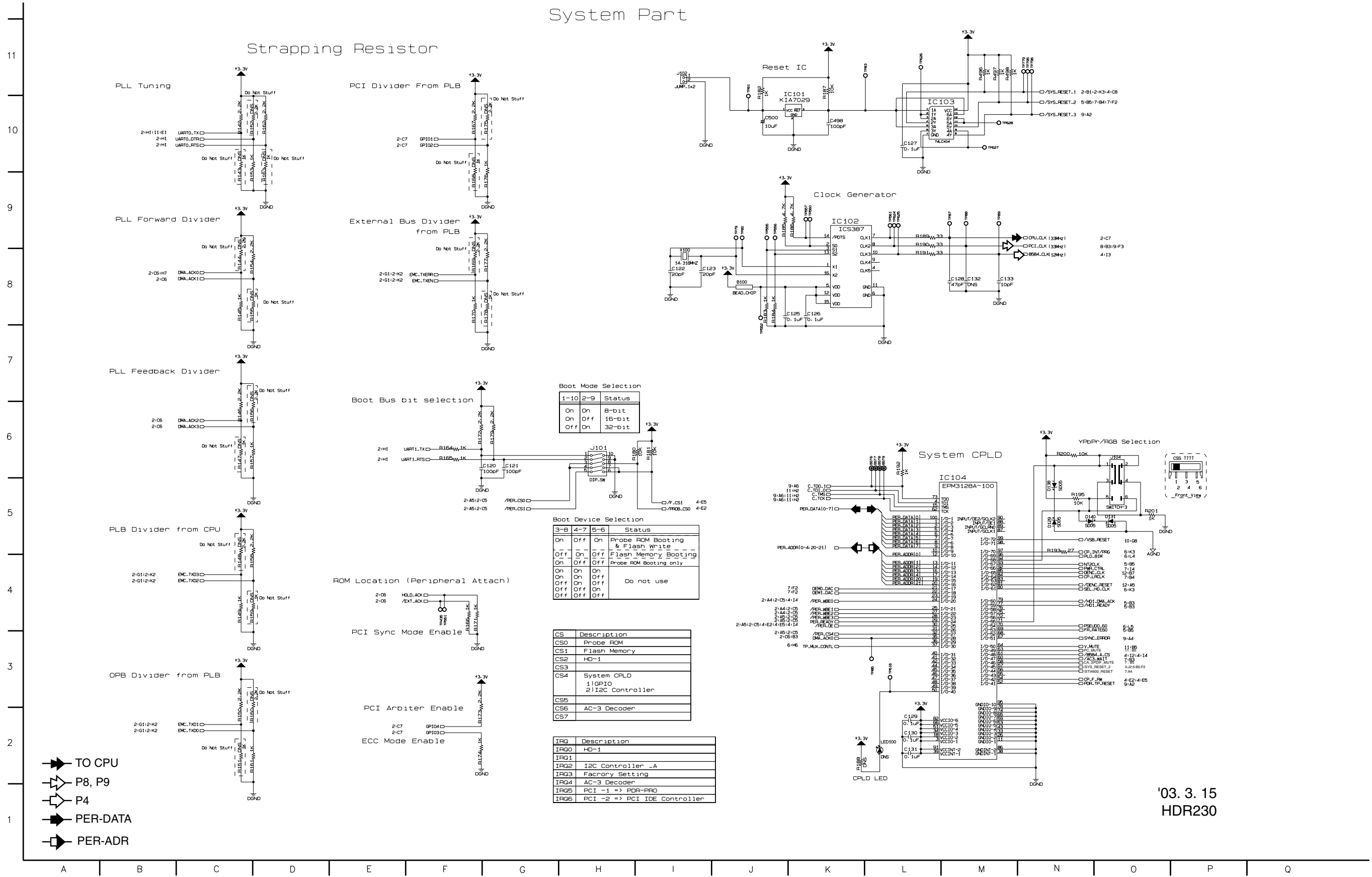
★OPTIONAL PART

	R102	C103
LST-2400	100K/2W	100μF/400V
LST-2410	100K/2W	100μF/400V
HDR230	T/W	220μF/250V

2) SYSTEM CIRCUIT DIAGRAM 1

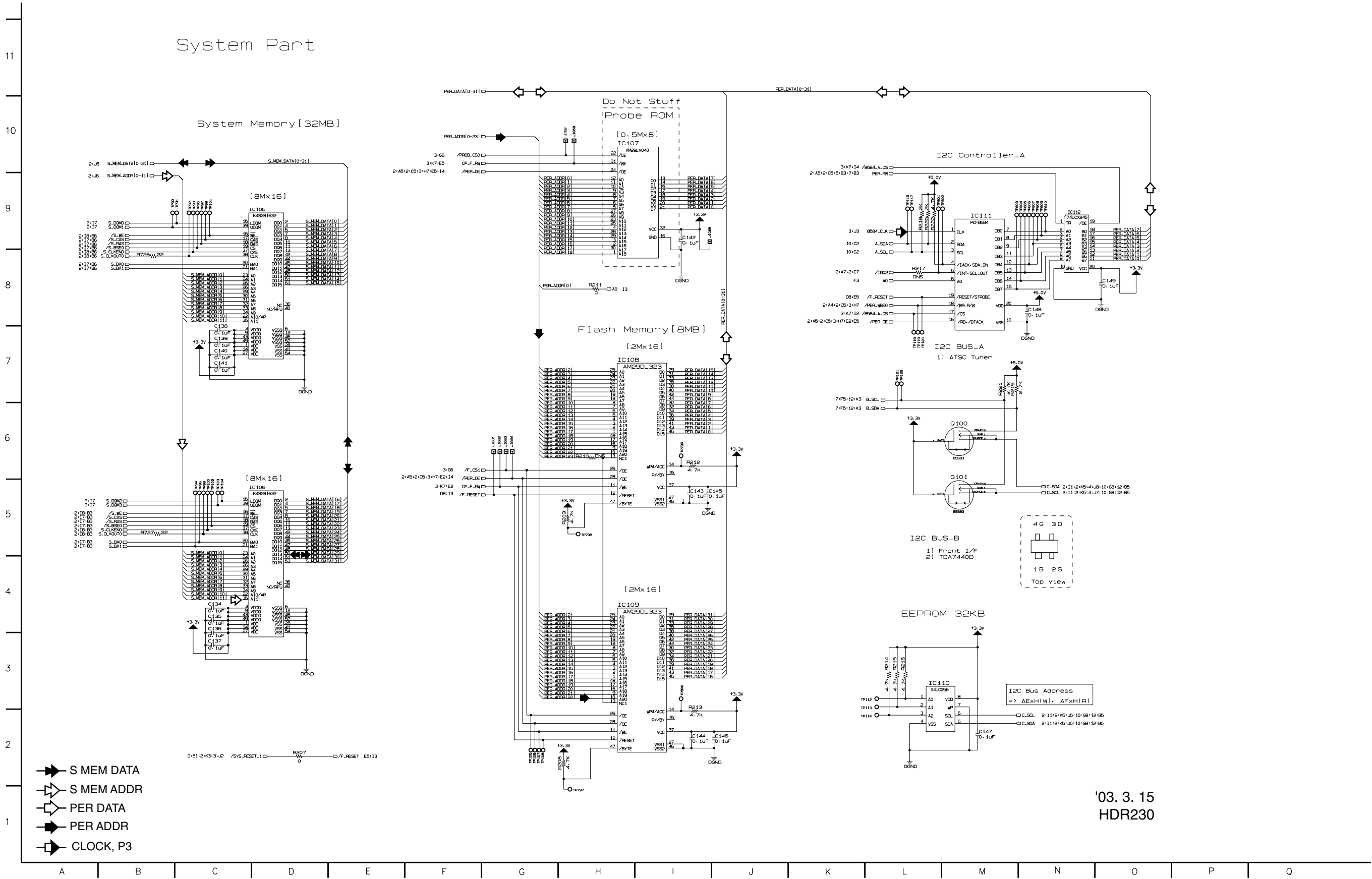


3) SYSTEM CIRCUIT DIAGRAM 2

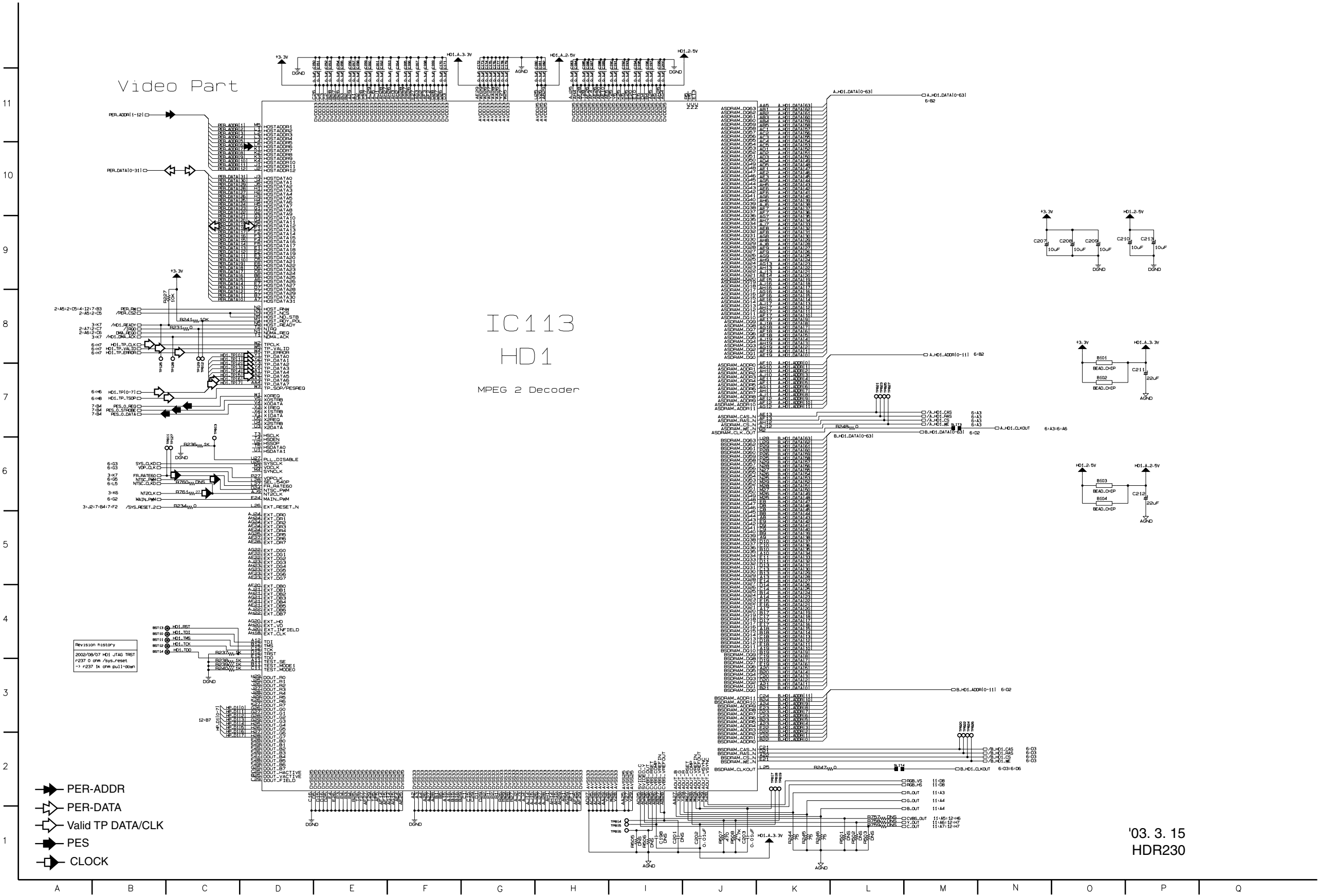


'03. 3. 15  
HDR230

4) SYSTEM CIRCUIT DIAGRAM 3

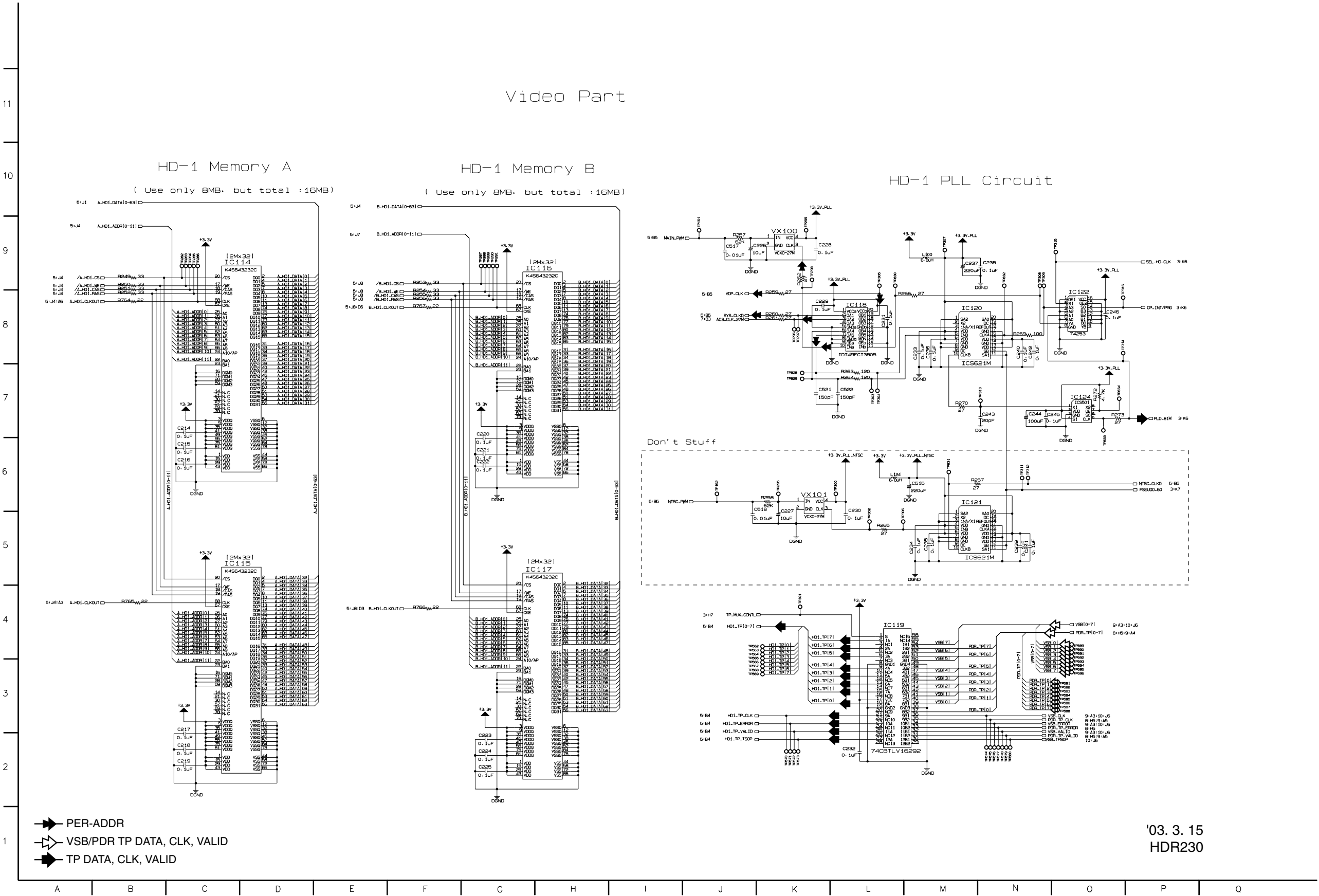


5) VIDEO CIRCUIT DIAGRAM 1

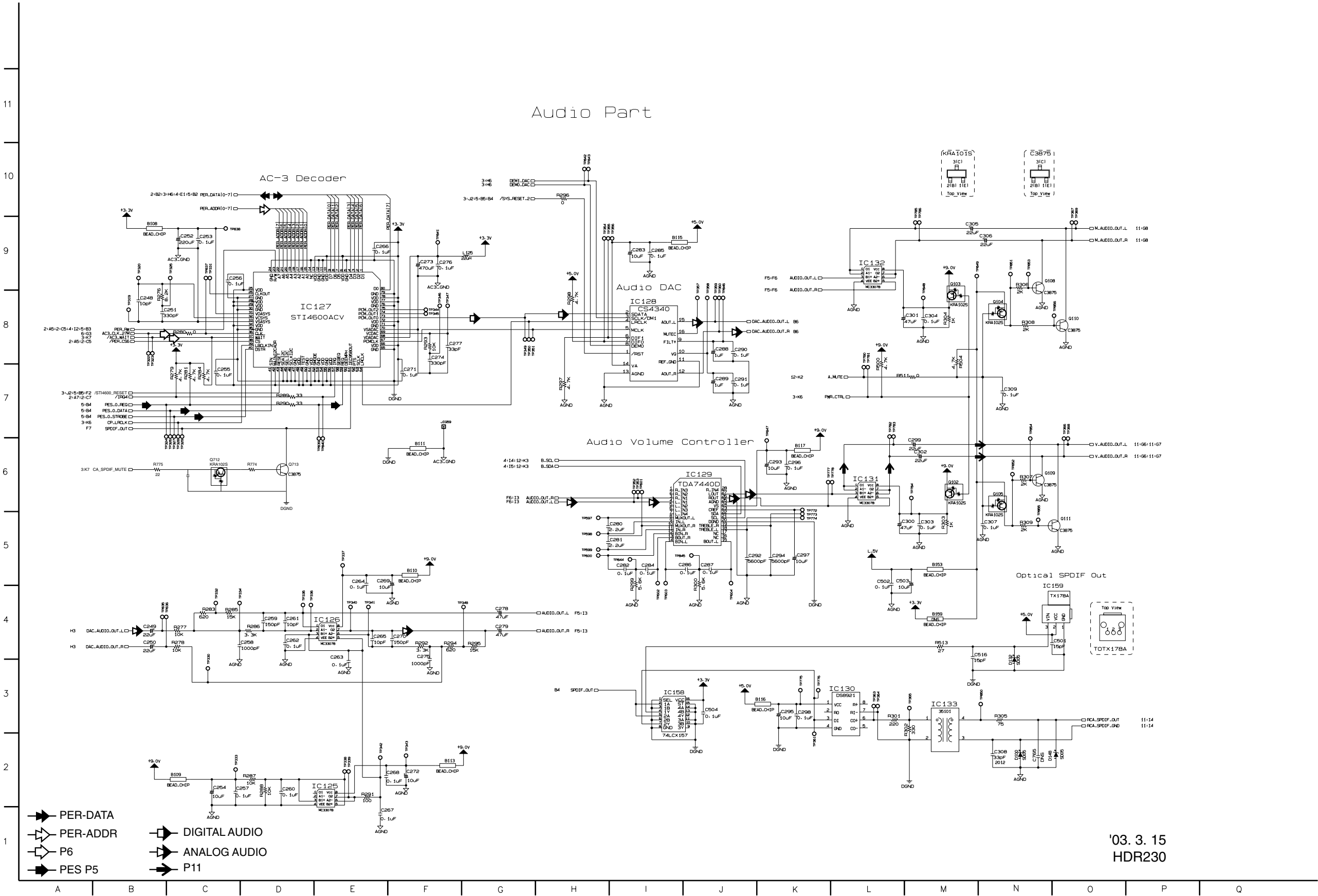




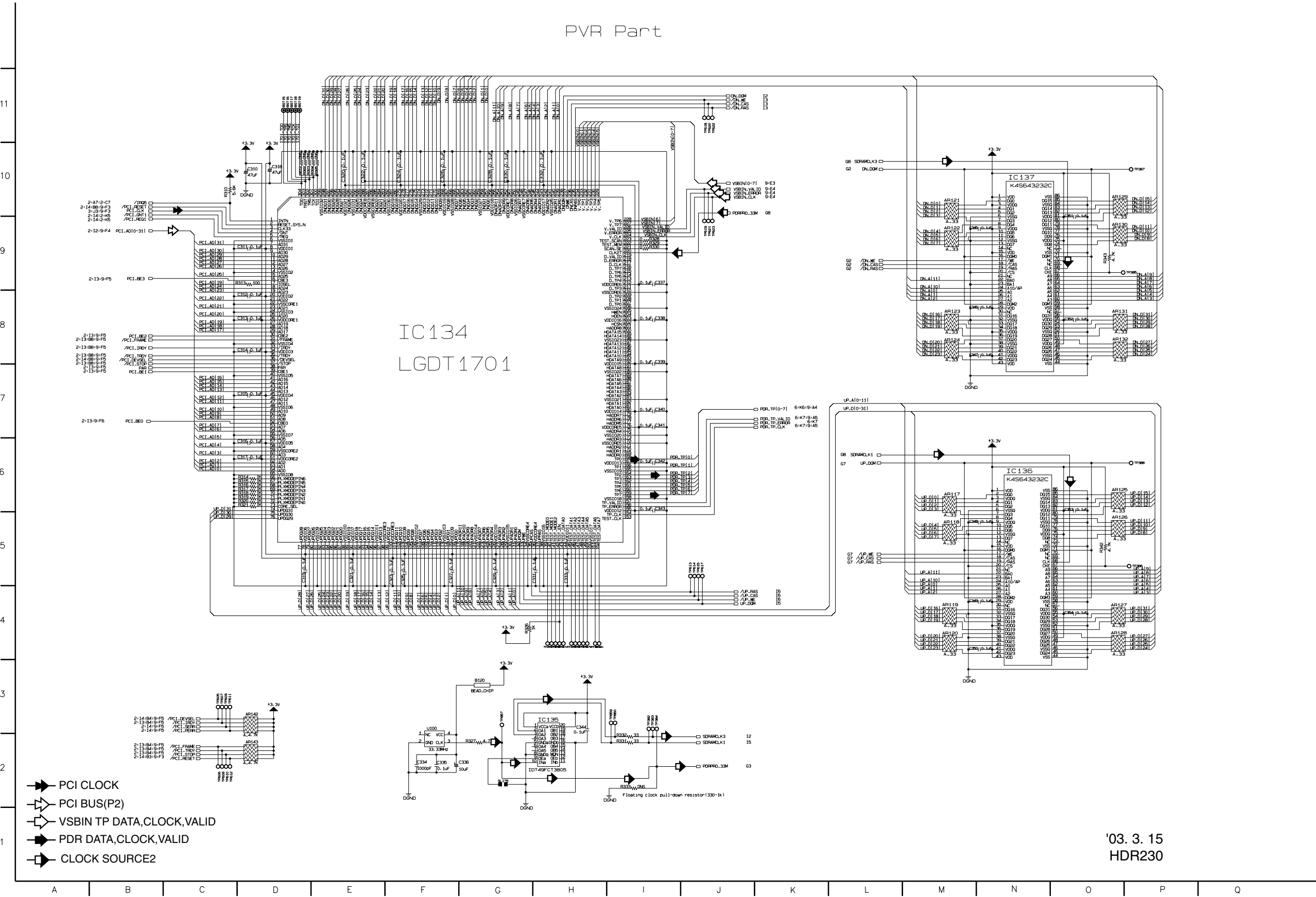
6) VIDEO CIRCUIT DIAGRAM 2



7) AUDIO CIRCUIT DIAGRAM

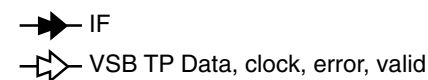
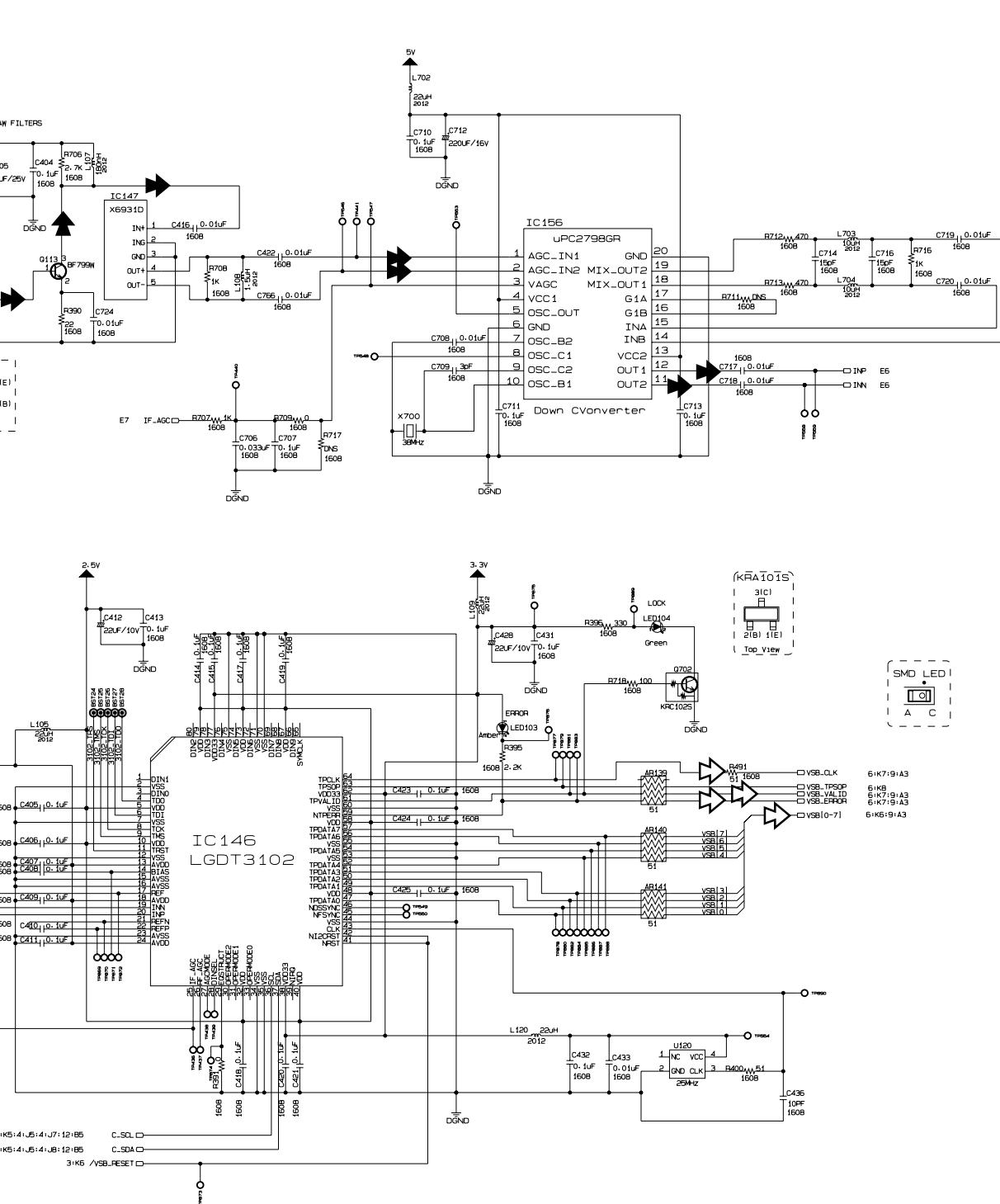


8) PVR CIRCUIT DIAGRAM 1

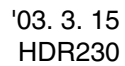




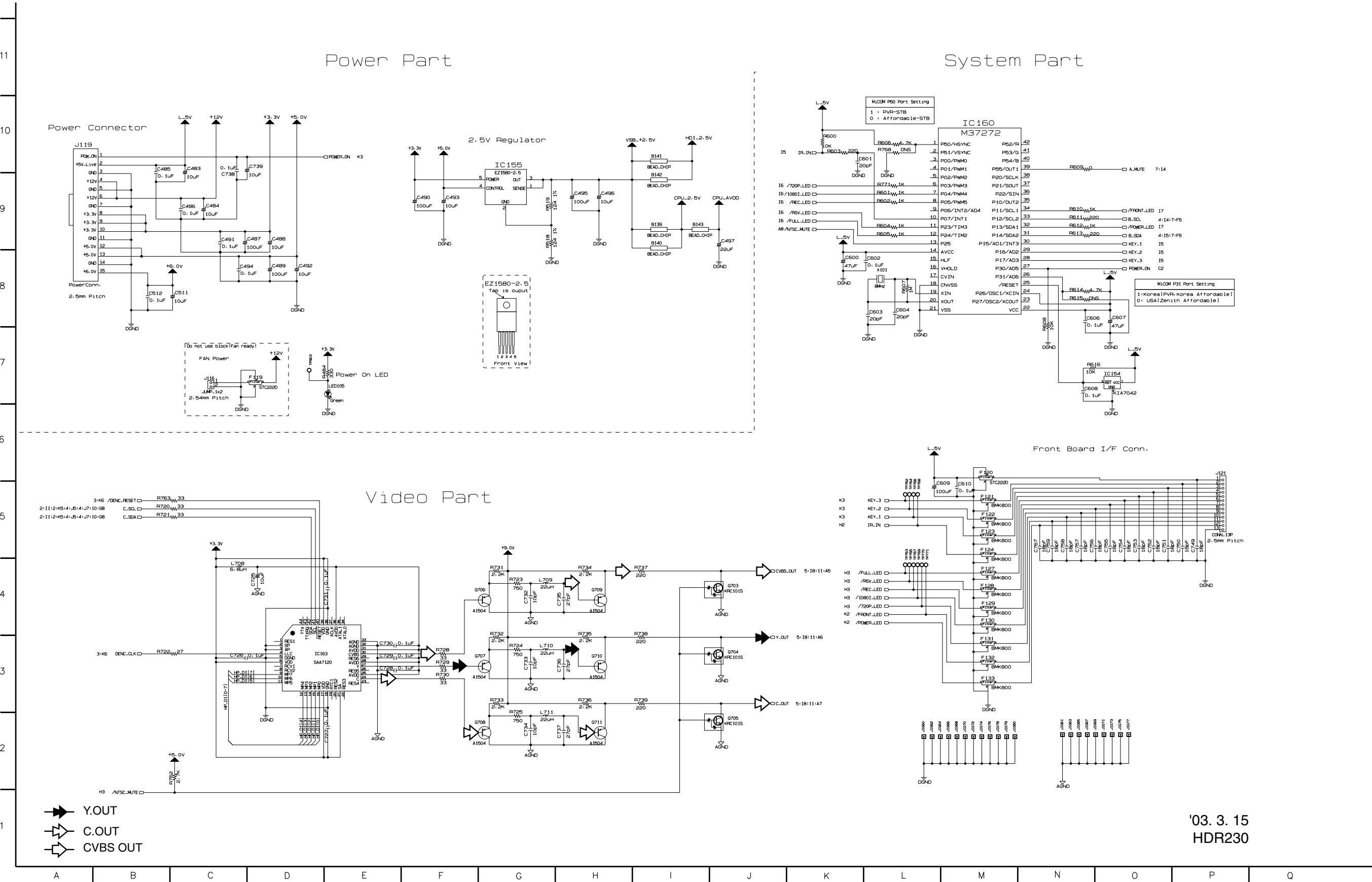
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1



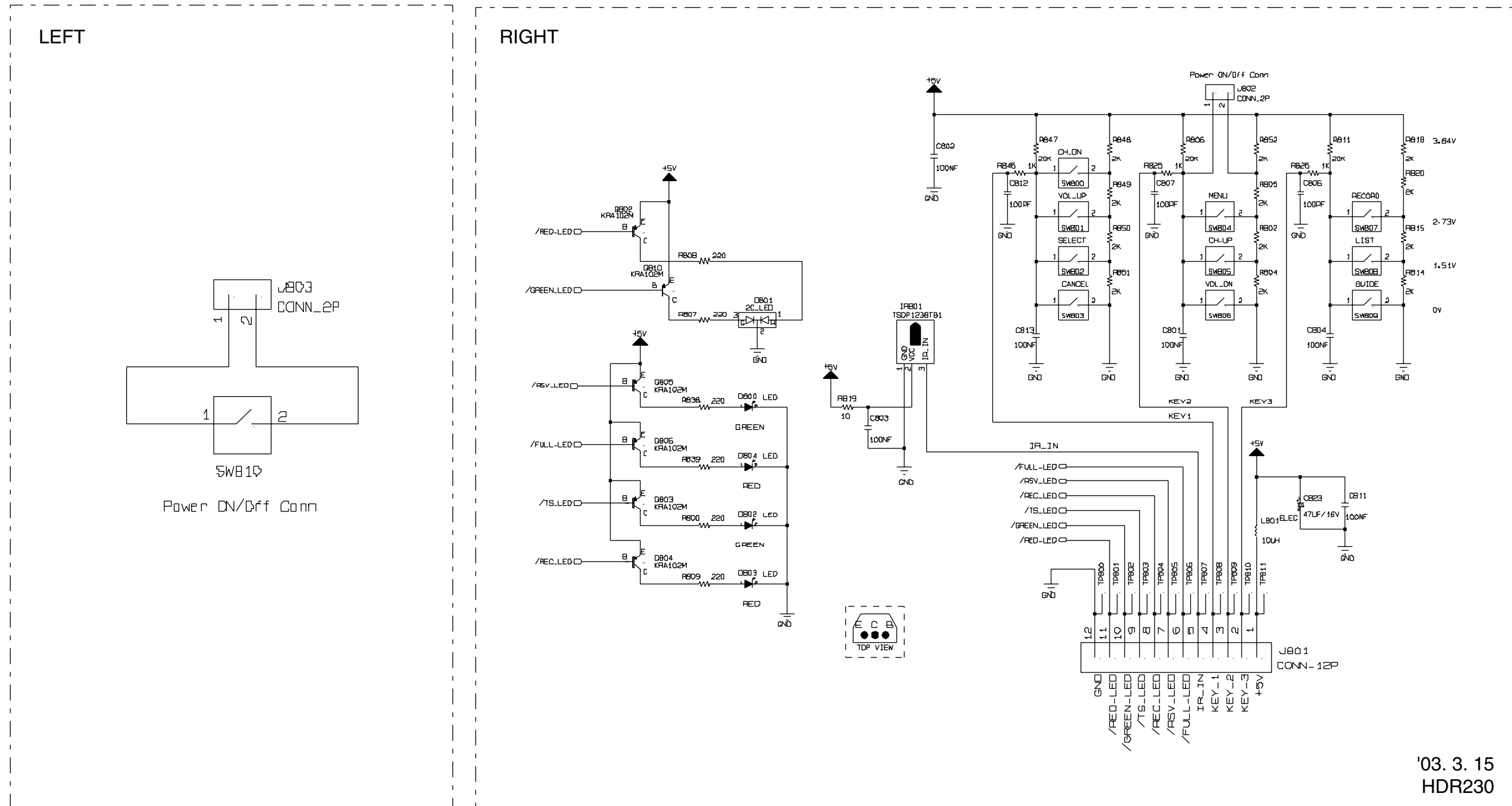
'03. 3. 15  
HDR230



12) POWER, IF, μ-COM, VIDEO CIRCUIT DIAGRAM

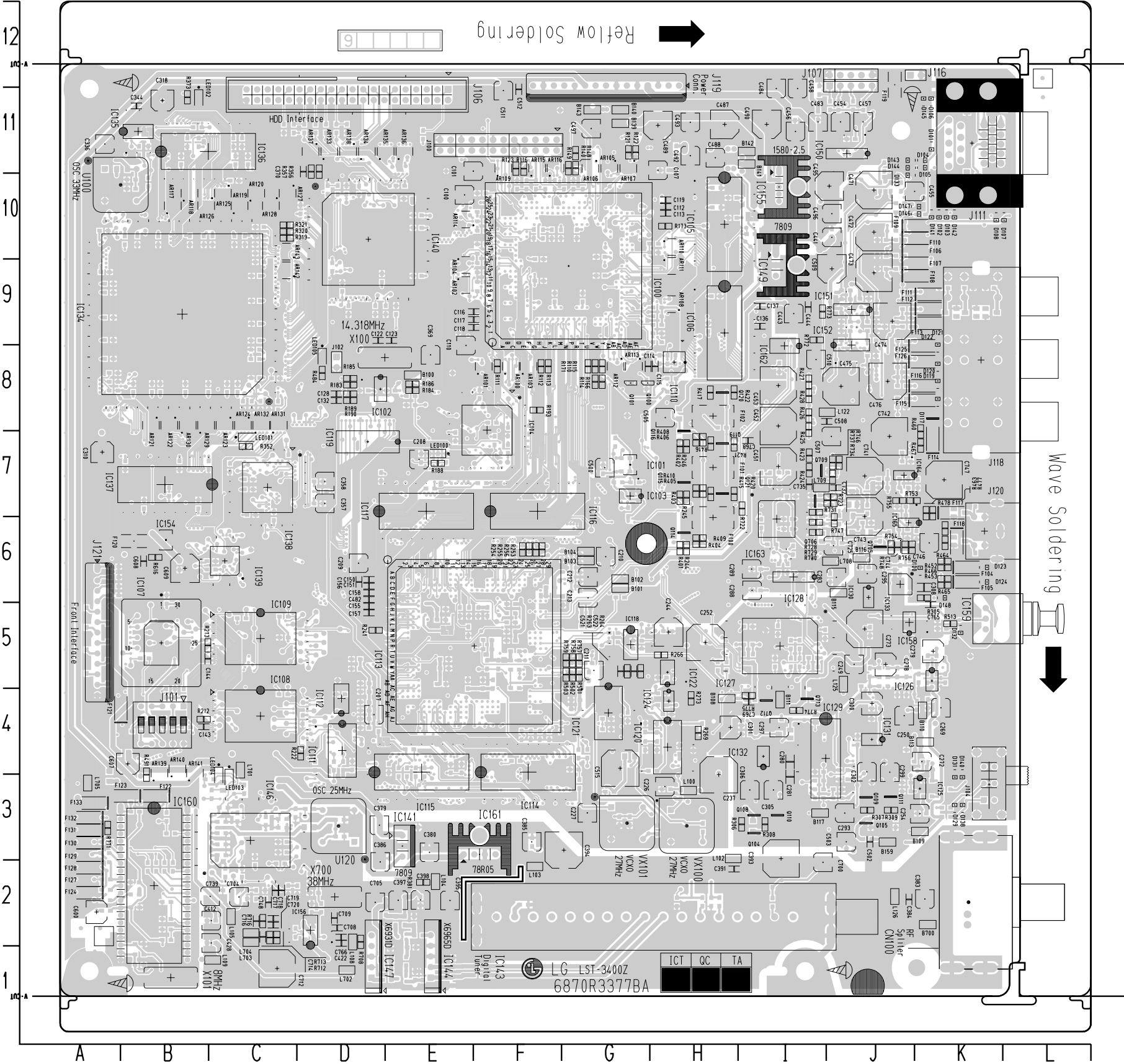


### 13) FRONT CIRCUIT DIAGRAM

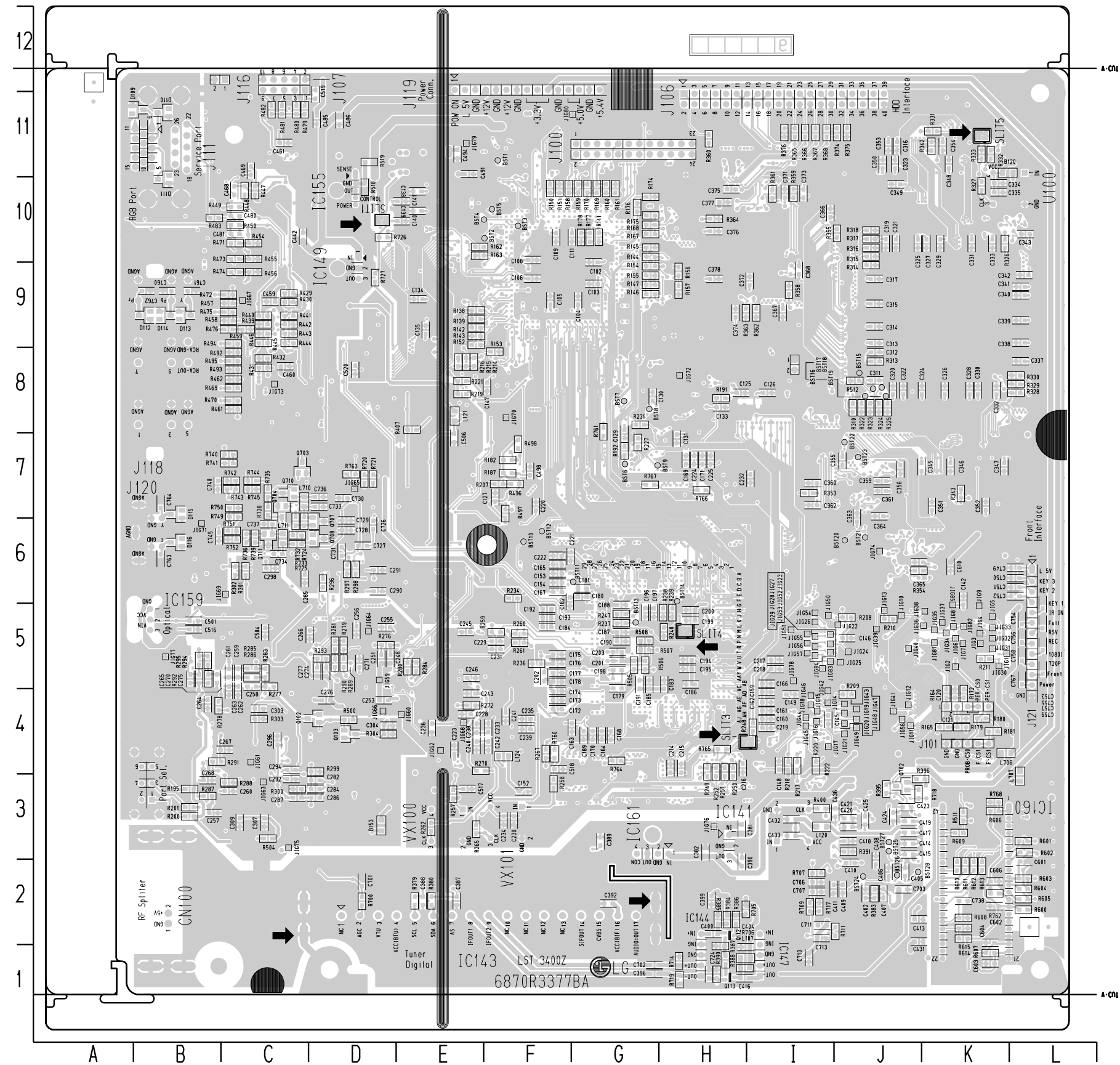




8. PRINTED CIRCUIT DIAGRAMS  
1) DIGITAL MAIN PRINTED CIRCUIT DIAGRAMS(TOP)



## 2) DIGITAL MAIN PRINTED CIRCUIT DIAGRAMS(BOTTOM)



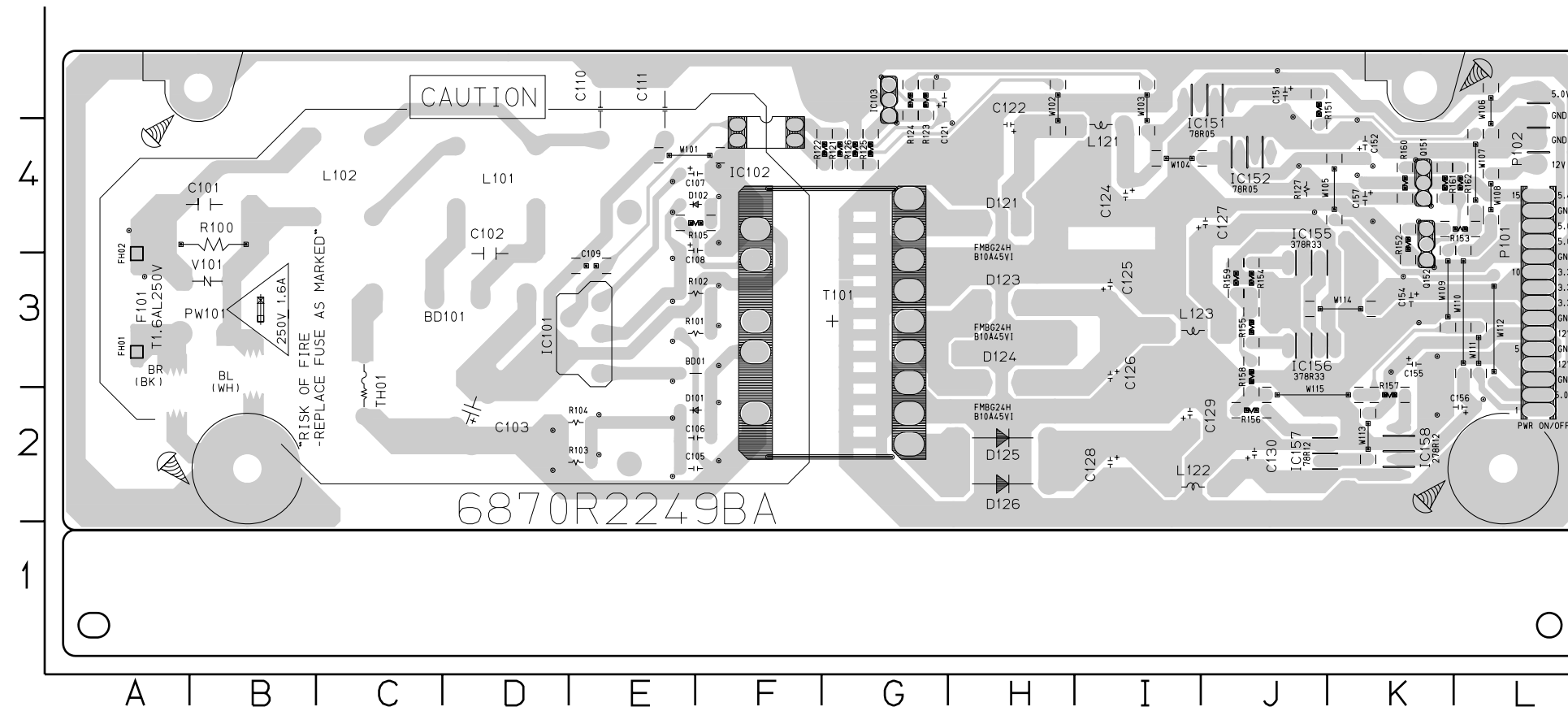
6870R3378AB

6870R3378AB

LOCATION GUIDE			
C801	C3	R807	L2
C802	G2	R808	L2
C803	H1	R809	J2
C804	F2	R811	F2
C806	G2	R814	E2
C807	G2	R815	E2
C811	G1	R818	F2
C812	G2	R819	I1
C813	C3	R820	E2
C823	F2	R825	E2
C824	H1	R826	E2
D800	L2	R836	J2
D801	L2	R838	J2
D802	K2	R839	I2
D803	J2	R846	E2
D804	I2	R847	C2
IR801	H2	R848	C1
J801	G2	R849	B2
J802	N3	R850	B2
L801	F2	R851	B2
Q802	L2	R852	F2
Q803	K2	SW800	C2
Q804	J2	SW801	C2
Q805	J2	SW802	B2
Q806	I2	SW803	B2
Q810	L2	SW804	D2
Q811	K2	SW805	C2
R800	K2	SW806	C2
R802	D2	SW807	F2
R804	C3	SW808	E2
R805	D2	SW809	E2
R806	D2		


LOCATION GUIDE		
C801	C3	R807 L2
C802	G2	R808 L2
C803	H1	R809 J2
C804	F2	R811 F2
C806	G2	R814 E2
C807	G2	R815 E2
C811	G1	R818 F2
C812	G2	R819 I1
C813	C3	R820 E2
C823	F2	R825 E2
C824	H1	R826 E2
D800	I2	R836 J2
D801	L2	R838 J2
D802	K2	R839 I2
D803	J2	R846 E2
D804	I2	R847 C2
JR801	H2	R848 C1
J801	G2	R849 B2
J802	N3	R850 B2
L801	F2	R851 B2
Q802	L2	R852 F2
Q803	K2	SW800 C2
Q804	J2	SW801 C2
Q805	J2	SW802 B2
Q806	I2	SW803 A2
Q810	L2	SW804 D2
Q811	K2	SW805 C2
R800	K2	SW806 C2
R802	D2	SW807 F2
R804	C3	SW808 E2
R805	D2	SW809 E2
R806	D2	

### 5) POWER PRINTED CIRCUIT DIAGRAM



## LOCATION GUIDDE

BD01	F3	IC156	J3
BD101	D3	IC157	J2
C101	B4	IC158	K2
C102	D3	L101	D4
C103	D2	L102	C4
C105	F2	L121	14
C106	F2	L122	12
C107	F4	L123	13
C108	F4	P101	L2
C109	E3	P102	L4
C110	E5	PW101	B3
C111	E5	Q151	K4
C121	G5	Q152	K4
C122	H4	R100	B4
C124	I4	R101	F3
C125	I3	R102	F3
C126	I3	R103	E2
C127	J4	R104	E2
C128	I2	R105	F4
C129	I2	R121	G4
C130	J2	R122	G4
C151	J5	R123	G5
C152	K4	R124	G5
C154	K3	R125	G4
C155	K3	R126	G4
C156	L2	R127	J4
C157	K4	R151	J5
D101	F2	R152	K4
D102	F4	R153	L4
D121	H4	R154	J3
D123	H3	R155	J3
D124	H3	R156	J2
D125	H2	R157	K2
D126	H2	R158	J3
FH01	A3	R159	J3
FH02	A3	R160	K4
IC101	E3	R161	K4
IC102	F4	R162	L4
IC103	G5	T101	G3
IC151	I5	TH01	C3
IC152	J4	V101	B3
IC155	J3		

NOTES)  Warning  
Parts that are shaded are critical  
With respect to risk of fire or  
electrical shock.

## SECTION 4 REPLACEMENT PARTS LIST

MODEL:(A)HDR230(ZENITH)

RUN DATE:MAR.13.2003

NSP:Not Service Part

### .CABINET & MAIN FRAME SECTION

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
<b>ASSEMBLY PARTS SECTION</b>							
		A42	6874R-3379W	O	HAND INS PWB(PCB)ASS'Y		
		A43	3501R-4030L	O	BOARD ASSEMBLY	VCR FRONT+PWB(LST-3400Z) STB M	
		A44	3501R-2249H	O	BOARD ASSEMBLY	VCR LST-3400Z PVR SMPS	
		A46	6871R-3377B	O	PWB(PCB) ASSEMBLY,TOTAL	MAIN US PVR STB	
		A47	4981R-0010B	O	SUPPORTER ASSEMBLY	CASE HDD(LST-2410 STB )	
		A47A	6744BSUN12A	O	HDD,3.5"	ST380023A SEAGATE 80GB IDE INN	
		A49	6874R-3378W	O	HAND INS PWB(PCB)ASS'Y		
<b>PARTS SECTION</b>							
		250	3110R-P014D	O	CASE	STB TOP PRESS SCREW 9EA SILVER	
		260	3141R-V011C	O	CHASSIS ASSEMBLY	LST-3400Z (CONTINUE 3141R-0062	
		280	3721R-F276J	O	PANEL ASSEMBLY,FRONT	VCR LST-3400Z HD_PVR	
		300	6410RAHK02D	O	POWER CORD	KJ-10W/NISPT-2(ST-HS:80MM) WIT	
		320	3720R-D071B	O	PANEL,VIDEO	VCR LST-3400Z PRESS	
<b>SCREW</b>							
		452	353-051A	O	SCREW	SPECIAL	
		457	353-046N	O	SCREW,DRAWING	SPECIAL(3X8 BK.)	
		463	353-051G	O	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		464	353-051E	O	SCREW	SPECIAL (3X12)	
		465	353-046K	O	SCREW	SPECIAL (3X10 B.K)	
		466	1BK-0512391	O	BOLT,HEXAGON SOCKET HEAD	D5.1 L7.0 STS 430	
		468	1SMBC81018A	O	SCREW MACHINE,BINDING HEAD	+ D6"-32 L5.5 MSWR3 / FN	
<b>.PACKING &amp; ACCESSORY SECTION</b>							
		801	3835RS0035X	O	INSTRUCTION ASSEMBLY	VCR LST-3400Z AA1UZZ	
		802	3890R-C049U	O	BOX,MASTER	LST-3400Z AA1UZZ C049U 1	
		803	3920R-E059A	O	PACKING,CASING	S.T.B ZENITH 0.02 80 EPE 4 ? ?	
		804	292-053B	O	BAG	SOFT(MIDI)	NSP
		806	6850R-CAA22	O	CABLE,COAXIAL	1200M/M NTSC-NTSC DOUBLE SHIEL	
		808	6910R-AB02A	O	BATTERY,ALKALINE	LR06 STC ALKALINE 1.5V .MA/H A	
		811	6611R3D003A	O	PLUG ASSEMBLY	3WAY RC3-18RRBB1-0 FREE OF CD_	
		812	6611R2D003A	O	PLUG ASSEMBLY	2WAY RC2-18RRBS1-0 FREE OF CD_	
		820	6611R1D003A	O	PLUG ASSEMBLY	1WAY RC1-18RRBS1-0 FREE OF CD	
<b>.REMOTE CONTROL SECTION</b>							
		900	6711R1N130A	O	REMOTE CONTROLLER ASSEMBLY	D5 LST-3400Z ZENITH	

# ELECTRICAL SECTION

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
CAPACITOR							
		C100	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C101	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
⚠		C101	624-088F	O	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
⚠		C102	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
⚠		C102	624-088F	O	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C103	0CE227JR6A0	O	CAPACITOR,FIXED ELECTROLYTIC	220UF SMH,HC 250V 20% BULK VNS	
		C103	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C104	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C105	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C105	0CQ1031Y519	O	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	
		C106	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C106	624-087B	O	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA	
		C107	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C107	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C108	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C108	624-085D	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C109	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C109	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
⚠		C110	0CG1020U630	O	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
⚠		C110	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
⚠		C111	0CG2220U630	O	CAPACITOR,SEMI CERAMIC	2200 PF 400V M E R (NK,AD,SD)	
⚠		C111	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C112	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C113	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C114	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C115	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C116	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C117	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C118	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C119	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C120	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C121	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C121	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C122	0CE228BF630	O	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C122	0CH4200K412	O	CAPACITOR,FIXED CERAMIC(High d	20PF 50V 5% NP0 1608 R/TP	
		C123	0CH4200K412	O	CAPACITOR,FIXED CERAMIC(High d	20PF 50V 5% NP0 1608 R/TP	
		C124	624-082H	O	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C125	0CE228BF630	O	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C125	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C126	0CE228BF630	O	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C126	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C127	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C127	624-082H	O	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C128	0CH4470K412	O	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C128	624-085E	O	CAPACITOR	CE 1000UF/25V KME (SMPS)	
		C129	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C129	624-085E	O	CAPACITOR	CE 1000UF/25V KME (SMPS)	
		C130	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C130	624-082G	O	CAPACITOR,FIXED ELECTROLYTIC	CE 470UF/25V SHL(10*12.5)T/P	
		C131	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C133	0CC100CK41A	O	CAPACITOR,FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C134	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C135	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C136	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C137	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	



S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C189	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C190	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C191	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C192	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C193	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C194	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C195	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C196	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C197	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C199	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C200	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C202	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C203	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C207	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C208	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C209	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C210	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C211	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C212	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C213	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C214	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C215	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C216	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C217	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C218	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C219	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C220	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C221	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C222	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C223	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C224	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C225	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C226	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C228	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C229	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C231	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C232	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C233	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C236	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C237	0CE227VF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	220UF MV 16V 20% R/TP(SMD) SMD	
		C238	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C240	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C242	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C243	0CH4200K412	O	CAPACITOR, FIXED CERAMIC(High d	20PF 50V 5% NP0 1608 R/TP	
		C244	0CE107SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C245	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C246	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C248	0CC100CK41A	O	CAPACITOR, FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C249	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C250	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C251	0CH4331K412	O	CAPACITOR, CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C252	0CE227VF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	220UF MV 16V 20% R/TP(SMD) SMD	
		C253	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C254	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C255	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C256	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C257	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	



S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C258	0CC102CK41A	O	CAPACITOR, FIXED CERAMIC (TEMP.C	1000PF 1608 50V 5% R/TP NP0	
		C259	0CH4151K412	O	CAPA, CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C260	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C261	0CC100CK41A	O	CAPACITOR, FIXED CERAMIC (Temp.c	10PF 1608 50V 5% R/TP NP0	
		C262	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C263	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C264	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C265	0CC100CK41A	O	CAPACITOR, FIXED CERAMIC (Temp.c	10PF 1608 50V 5% R/TP NP0	
		C266	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C267	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C268	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C269	0CH8106F611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C270	0CH4151K412	O	CAPA, CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C271	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C272	0CH8106F611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C273	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C274	0CH4331K412	O	CAPACITOR, CHIP [CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C275	0CC102CK41A	O	CAPACITOR, FIXED CERAMIC (TEMP.C	1000PF 1608 50V 5% R/TP NP0	
		C276	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C277	0CH4330K412	O	CAPACITOR, CHIP [CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C278	0CE476SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C279	0CE476SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C280	0CH1225F946	O	CAPACITOR, FIXED CERAMIC (Temp.c	2.2UF 16V 80%, -20% Y5V(F) 2012	
		C281	0CH1225F946	O	CAPACITOR, FIXED CERAMIC (Temp.c	2.2UF 16V 80%, -20% Y5V(F) 2012	
		C282	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C283	0CH8106F611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C284	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C285	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C286	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C287	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C288	0CH8105K611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C289	0CH8105K611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C290	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C291	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C292	0CK562CF56A	O	CAPACITOR, FIXED CERAMIC (High d	5600PF 1608 16V 10% R/TP X7R	
		C293	0CH8106F611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C294	0CK562CF56A	O	CAPACITOR, FIXED CERAMIC (High d	5600PF 1608 16V 10% R/TP X7R	
		C295	0CH8106F611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C296	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C297	0CH8106F611	O	CAPACITOR, CHIP [AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C298	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C299	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C300	0CE476SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C301	0CE476SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C302	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C303	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C304	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C305	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C306	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C307	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C308	0CH4330K412	O	CAPACITOR, CHIP [CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C309	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C310	0CE476SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C311	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C312	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C313	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C314	0CH1104K512	O	CAPACITOR, FIXED CERAMIC (Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C315	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C316	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C317	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C318	0CE476SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C319	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C320	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C321	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C322	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C323	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C324	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C325	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C326	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C327	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C328	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C329	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C330	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C331	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C332	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C333	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C334	0CC102CK41A	O	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 1608 50V 5% R/TP NP0	
		C335	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C336	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C337	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C338	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C339	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C340	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C341	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C342	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C343	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C344	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C345	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C346	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C347	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C348	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C349	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C350	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C351	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C352	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C353	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C354	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C355	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C356	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C357	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C358	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C359	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C360	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C361	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C362	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C363	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C364	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C365	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C366	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C367	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C368	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C369	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C370	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C371	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C372	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C373	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C374	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C375	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C376	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C377	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C378	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C379	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C380	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C381	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C382	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C383	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C384	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C385	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C386	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C387	0CC100CK41A	O	CAPACITOR, FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C388	0CC100CK41A	O	CAPACITOR, FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C389	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C390	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C391	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C392	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C393	0CE227VF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	220UF MV 16V 20% R/TP(SMD) SMD	
		C394	0CE227VF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	220UF MV 16V 20% R/TP(SMD) SMD	
		C395	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C396	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C397	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C398	0CH8105K611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C399	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C400	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C404	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C405	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C406	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C407	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C408	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C409	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C410	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C411	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C412	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C413	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C414	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C415	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C416	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C417	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C418	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C419	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C420	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C421	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C422	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C423	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C424	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C425	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C428	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C431	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C432	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C433	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C436	0CC100CK41A	O	CAPACITOR, FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C441	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C442	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C443	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C444	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C451	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C452	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C453	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C454	0CH8105K611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C455	0CH8105K611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C456	0CH8105K611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C457	0CH8105K611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C458	0CH8105K611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	1UF 50V M 85STD(CYL) R/TP	
		C459	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C460	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C461	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C468	0CH4221K412	O	CAPACITOR, CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C469	0CH4221K412	O	CAPACITOR, CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C471	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C472	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C473	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C474	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C475	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C476	0CH8477F611	O	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C480	0CH4470K412	O	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C481	0CH4470K412	O	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C482	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C483	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C484	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C485	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C486	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C487	0CE107SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C488	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C489	0CE107SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C490	0CE107SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C491	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C492	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C493	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C494	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C495	0CE107SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C496	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C497	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C498	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C500	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C501	0CH4150K412	O	CAPA, CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C502	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C503	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C504	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C505	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C506	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C507	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C508	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C509	0CE107SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C510	0CE226SF6DC	O	CAPACITOR, FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C511	0CH8106F611	O	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C512	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C516	0CH4150K412	O	CAPA, CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C517	0CH1103K562	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C520	0CH1104K512	O	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C521	0CH4151K412	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C522	0CH4151K412	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C600	0CE476SF6DC	O	CAPACITOR,FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C601	0CH4200K412	O	CAPACITOR,FIXED CERAMIC(High d	20PF 50V 5% NP0 1608 R/TP	
		C602	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C603	0CH4200K412	O	CAPACITOR,FIXED CERAMIC(High d	20PF 50V 5% NP0 1608 R/TP	
		C604	0CH4200K412	O	CAPACITOR,FIXED CERAMIC(High d	20PF 50V 5% NP0 1608 R/TP	
		C606	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C607	0CE476SF6DC	O	CAPACITOR,FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C608	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C609	0CE107SF6DC	O	CAPACITOR,FIXED ELECTROLYTIC	100UF MVG 16V 20% SMD R/TP	
		C610	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C700	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C702	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C703	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C704	0CE226SF6DC	O	CAPACITOR,FIXED ELECTROLYTIC	22UF MVG 16V 20% SMD R/TP	
		C705	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C706	0CH1333F512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.033UF 16V 10% B(5YP) 1608 R/	
		C707	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C708	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C709	0CC030CKE1A	O	CAPACITOR,FIXED CERAMIC(Temp.c	3PF 1608 50V 1% R/TP NP0	
		C710	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C711	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C712	0CE227VF6DC	O	CAPACITOR,FIXED ELECTROLYTIC	220UF MV 16V 20% R/TP(SMD) SMD	
		C713	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C714	0CH4150K412	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C716	0CH4150K412	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C717	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C718	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C719	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C720	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C724	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C725	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C726	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C727	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C728	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C729	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C730	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C731	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C732	0CC100CK41A	O	CAPACITOR,FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C733	0CC100CK41A	O	CAPACITOR,FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C734	0CC100CK41A	O	CAPACITOR,FIXED CERAMIC(Temp.c	10PF 1608 50V 5% R/TP NP0	
		C735	0CH4270K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C736	0CH4270K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C737	0CH4270K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C738	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C739	0CH8106F611	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C740	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C741	0CH8477F611	O	CAPACITOR,FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C742	0CH8477F611	O	CAPACITOR,FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C743	0CH8477F611	O	CAPACITOR,FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C744	0CH1474K562	O	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C745	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C746	0CE474VK6DC	O	CAPACITOR,FIXED ELECTROLYTIC	0.47UF MV 50V 20% R/TP(SMD) SM	
		C747	0CH8477F611	O	CAPACITOR,FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C760	0CH4330K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C761	0CH4330K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		C762	0CH4330K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C763	0CH4330K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C764	0CH4330K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C766	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C769	0CH1104K512	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C801	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C802	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C803	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C804	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C806	0CN1010K418	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C807	0CN1010K418	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C811	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C812	0CN1010K418	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C813	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C823	0CE4763F638	O	CAPACITOR,ELECTROLYTIC	47M SRE 16V M FM5 TP(5)	
		C824	0CE4763F638	O	CAPACITOR,ELECTROLYTIC	47M SRE 16V M FM5 TP(5)	
		CN100	6634D00003A	O	ADAPTER,RF	UMX-NT-012 RF SPLITER UGCOM 75	
<b>DIODE&amp;DIGITRON</b>							
		D100	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D101	0DD010009CA	O	DIODE,RECTIFIER	EG01CW(R-FORM 5MM) TP SANKEN	
		D101	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D102	0DD010009AC	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D102	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D103	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D104	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D105	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D106	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D107	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D108	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D109	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D110	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D111	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D112	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D113	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D114	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D115	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D116	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D117	0DRSE00028A	O	DIODE,RECTIFIERS	SLUV2.8 SEMTECH R/TP SOT23 2.8	
		D119	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D120	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D121	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D121	4811R-0043A	O	BRACKET ASSEMBLY	FMB-G24H_HEAT SINK	
		D122	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D123	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D123	4811R-0043A	O	BRACKET ASSEMBLY	FMB-G24H_HEAT SINK	
		D124	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D124	4811R-0043A	O	BRACKET ASSEMBLY	FMB-G24H_HEAT SINK	
		D125	0DD400000AD	O	DIODE,RECTIFIERS	RU4YXLF(015-305) M20 SANKEN	
		D126	0DD400000AD	O	DIODE,RECTIFIERS	RU4YXLF(015-305) M20 SANKEN	
		D129	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D131	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D132	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D133	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D138	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D140	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D141	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D142	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		D143	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D144	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D145	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D146	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D147	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D148	0DR050008AA	O	DIODE,RECTIFIERS	SD05.TC R/TP SEMTECH SOD323 5V	
		D800	0DLLT0179AA	O	LED	LITEON LTL-1CHKE-071A 3.5MM F	
		D801	0DLKO0039AA	O	LED	K1 ELECTRONICS WAN-3671BT 5MM	
		D802	0DLKO0039AA	O	LED	K1 ELECTRONICS WAN-3671BT 5MM	
		D803	0DLLT0109AB	O	LED	LITEON LTL-1CHEE-071A CLEAR TP	
		D804	0DLLT0109AB	O	LED	LITEON LTL-1CHEE-071A CLEAR TP	
<b>FUSE</b>							
		F101	0FS1601B51B	O	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS /	
<b>IC</b>							
		IC100	0IMCRBM002A	O	IC,MICRO CONTROLLER	IBM25PPC405GP-3BE200C IBM 456	
		IC101	0IKE702900F	O	IC,KEC	KIA7029AF SOT-89 TP IC,RESET -	
		IC101	4811R-0043E	O	BRACKET ASSEMBLY	KA1M0880B_HEAT SINK	
		IC102	0IPRPC004A	O	IC,PERIPHERALS	ICS387G-10T ICS 16 SSOP R/TP C	
		IC103	0ISS431000A	O	IC,SAMSUNG ELECTRONICS	KA431AZ (LM431AZ)	
		IC103	0ISTLFA047A	O	IC,STANDARD LOGIC	74LCX04MTCX FAIRCHILD 14P TSSO	
		IC104	0IMCRAT005A	O	IC,MICRO CONTROLLER	EPM3128ATC100-10 ALTERA 100P,Q	
		IC105	0IMMRSS006D	O	IC,MEMORIES	K4S281632E-TC75 SAMSUNG ELECTR	
		IC106	0IMMRSS006D	O	IC,MEMORIES	K4S281632E-TC75 SAMSUNG ELECTR	
		IC108	0IMMRFU004A	O	IC,MEMORIES	MBM29DL323TE90TN FUJITSU 48 TS	
		IC109	0IMMRFU004A	O	IC,MEMORIES	MBM29DL323TE90TN FUJITSU 48 TS	
		IC110	0IMP242560A	O	IC,MICRO CHIP TECHNOLOGY	24LC256-I/SM 8P,SOP TP 256K II	
		IC111	0IPH858400A	O	IC,PHILIPS	PCF8584T 20P,SOP TP IIC BUS CO	
		IC112	0ISTLFA046A	O	IC,STANDARD LOGIC	74LCX245MTCX FAIRCHILD 20P TSO	
		IC113	0ICTMLG002D	O	IC,CUSTOMIZED	LGDT1101D LG IC 480 BLACK-SBGA	
		IC114	0IMMRSS037D	O	IC,MEMORIES	K4S643232F-TC/L50 SAMSUNG ELEC	
		IC115	0IMMRSS037D	O	IC,MEMORIES	K4S643232F-TC/L50 SAMSUNG ELEC	
		IC116	0IMMRSS037D	O	IC,MEMORIES	K4S643232F-TC/L50 SAMSUNG ELEC	
		IC117	0IMMRSS037D	O	IC,MEMORIES	K4S643232F-TC/L50 SAMSUNG ELEC	
		IC118	0IID493805A	O	IC,IDT	IDT49FCT3805APY 20P,SOP TP CLO	
		IC119	0ISTLT025A	O	IC,STANDARD LOGIC	SN74CBTLV16292GR TEXAS INSTRUM	
		IC120	0IPRPC002A	O	IC,PERIPHERALS	ICS621M-01T INTEGRATED CIRCUIT	
		IC122	0ISTLID004A	O	IC,STANDARD LOGIC	IDT74CBTLV3253 IDT 16P TSSOP R	
		IC124	0IIC501000A	O	IC,LINEAR	ICS 501MT 8P,SOP TP PLL CLOCK	
		IC125	0IMO330780B	O	IC,MOTOROLA	MC33078D 8/SOIC TP LINEAR +-18	
		IC126	0IMO330780B	O	IC,MOTOROLA	MC33078D 8/SOIC TP LINEAR +-18	
		IC127	0ISG460000B	O	IC,SGS-THOMSON	STI4600BCV 80P QFP BK 6CH DOLB	
		IC128	0ICB434000A	O	IC,CRYSTAL SEMICONDUCTOR	CS4340-KSR SMD TP AUDIO DAC	
		IC129	0ISG744000B	O	IC,SGS-THOMSON	TDA7440D 28PIN SOP R/TP FUNCTI	
		IC130	0INA892100A	O	IC,NATIONAL	DS8921MX 8P,SOP TP LINE DRIVER	
		IC131	0IMO330780B	O	IC,MOTOROLA	MC33078D 8/SOIC TP LINEAR +-18	
		IC132	0IMO330780B	O	IC,MOTOROLA	MC33078D 8/SOIC TP LINEAR +-18	
		IC133	6170RA0002A	O	TRANSFORMER,PULSE	CIT0705S-35101 4P,SOP TP PULSE	
		IC134	0ICTMLG007A	O	IC,CUSTOMIZED	LGDT1701 LG IC 304 PQFP TRAY P	
		IC135	0IID493805A	O	IC,IDT	IDT49FCT3805APY 20P,SOP TP CLO	
		IC136	0IMMRSS037D	O	IC,MEMORIES	K4S643232F-TC/L50 SAMSUNG ELEC	
		IC137	0IMMRSS037D	O	IC,MEMORIES	K4S643232F-TC/L50 SAMSUNG ELEC	
		IC138	0IMCRAT005A	O	IC,MICRO CONTROLLER	EPM3128ATC100-10 ALTERA 100P,Q	
		IC139	0ISTLID003A	O	IC,STANDARD LOGIC	IDT72V211 IDT 32P TQFP TRAY SY	
		IC140	0IPRPS2001A	O	IC,PERIPHERALS	SIL0649 SILICON MAGIC 160 TQFP	
		IC141	0IPMGFA021A	O	IC,POWER MANAGEMENT	KA7809TSTU FAIRCHILD 3P TO-220	
		IC143	6700NFNS05B	O	TUNER	TDPC-H902P Y2K2 LG NTSC FS DIR	
		IC144	6200QL3001G	O	FILTER(CIRC),SAW	X6965D EPCOS ST 44.06MHZ	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		IC146	0ICTMLG005A	O	IC,CUSTOMIZED	LGDT3102 LG IC 80P HQFP TP AVS	
		IC147	6200QL3001F	O	FILTER(CIRC),SAW	X6931D EPCOS ST 44.0MHZ	
		IC149	4811R-0042F	O	BRACKET ASSEMBLY	PVR STB	
		IC150	0IPRPTI015A	O	IC,PERIPHERALS	MAX232DR TEXAS INSTRUMENT 16PI	
		IC151	0ILNRNS009A	O	IC,LINEAR	LMH6683MAX NATIONAL SEMICONDUCT	
		IC151	4811R-0043G	O	BRACKET ASSEMBLY	378R05_HEATSINK	
		IC152	0ILNRNS009A	O	IC,LINEAR	LMH6683MAX NATIONAL SEMICONDUCT	
		IC152	0IPMGFE018A	O	IC,POWER MANAGEMENT	KIA78R05API CU KEC 4P TO-220IS	
		IC154	0IKE704200J	O	IC,KEC	KIA7042AF SOT-89 TP 4.2V VOLTA	
		IC155	4811R-0042H	O	BRACKET ASSEMBLY	PVR STB	
		IC155	4811R-0043B	O	BRACKET ASSEMBLY	378R33_HEAT SINK	
		IC156	0IPRPNE005A	O	IC,PERIPHERALS	UPC2798GR NEC 20 SSOP R/TP DOW	
		IC156	4811R-0043B	O	BRACKET ASSEMBLY	378R33_HEAT SINK	
		IC157	4811R-0043D	O	BRACKET ASSEMBLY	78R12_REG HEAT SINK	
		IC158	0IPMGFA031A	O	IC,POWER MANAGEMENT	KA278R12TSTU FAIRCHILD 4P TO-2	
		IC158	0ISTLFA014B	O	IC,STANDARD LOGIC	74LCX157MTCX FAIRCHILD 16PIN L	
		IC159	6612K00003B	O	JACK,FIBER OPTIC	PLT131/T5/12(12MBPS) EVERLIGHT	
		IC160	0IMCRMIO29A	O	IC,MICRO CONTROLLER	M3727GM6-075SP MITSUBISHI 42 D	
		IC161	4811R-0042G	O	BRACKET ASSEMBLY	PVR STB	
		IC162	0ISTLFA054A	O	IC,STANDARD LOGIC	74LCX244MTCX FAIRCHILD 20P TSS	
		IC163	0ILNRPH005A	O	IC,LINEAR	SAA7120A PHILIPS 44 QFP TRAY V	
		IC164	0IPRPTK001A	O	IC,PERIPHERALS	TK15420M TOKO 8 SOP R/TP VIDEO	
		IC165	0IPRPTK001A	O	IC,PERIPHERALS	TK15420M TOKO 8 SOP R/TP VIDEO	
<b>JACK</b>							
		IC159	6612K00003B	O	JACK,FIBER OPTIC	PLT131/T5/12(12MBPS) EVERLIGHT	
		J118	6612JH003DG	O	JACK,RCA	RCA-907A-04G YUQIU	
		J120	6612BBBHN5A	O	JACK,DIN	SCN556S4GTTB000 S-VIDEO HYUSUN	
<b>COIL&amp;FILTER&amp;LED</b>							
		B100	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B101	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B102	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B103	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B104	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B108	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B109	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B110	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B111	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B113	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B115	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B116	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B117	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B120	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B139	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B140	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B141	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B142	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B143	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B153	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		B700	6200HJC106A	O	FILTER(CIRC),EMC	HH-1M2012-121JT CERATECH TP 2	
		BD01	636-004C	O	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		F100	6200C000017	O	FILTER(CIRC),BAND PASS	LOW PASS FILTER 38MHZ TOKO R/T	
△		F101	6200C000017	O	FILTER(CIRC),BAND PASS	LOW PASS FILTER 38MHZ TOKO R/T	
		F102	6200C000017	O	FILTER(CIRC),BAND PASS	LOW PASS FILTER 38MHZ TOKO R/T	
		F104	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F105	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F106	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F107	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	



S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		F108	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F109	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F110	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F111	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F112	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F113	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F114	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F115	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F116	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F117	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F118	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F119	6200VJT006A	O	FILTER(CIRC),EMC	STC222D NIIGATA 50VOLT 4A 2200	
		F120	6200VJT006A	O	FILTER(CIRC),EMC	STC222D NIIGATA 50VOLT 4A 2200	
		F121	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F122	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F123	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F124	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F125	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F126	6200VJT001A	O	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		F127	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F128	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F129	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F130	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F131	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F132	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		F133	6200JB8009L	O	FILTER(CIRC),EMC	EMC BMK800 50V 0.2A NIIGATA R/	
		IC144	6200QL3001G	O	FILTER(CIRC),SAW	X6965D EPCOS ST 44.06MHZ	
		IC147	6200QL3001F	O	FILTER(CIRC),SAW	X6931D EPCOS ST 44.0MHZ	
		L100	0LCCE00004D	O	INDUCTOR,CHIP	6.8UH, CHIP2012 CERATECH R/TP	
⚠		L101	6200RLB007A	O	FILTER(CIRC),EMI	500UHX2 KWANGSUNG BULK DV-3500	
⚠		L102	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
⚠		L102	6200RLB006A	O	FILTER(CIRC),EMI	UU1620 KWANGSUNG BULK	
		L103	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L104	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L105	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L107	0LCCE00004K	O	INDUCTOR,CHIP	180NH, CHIP2012 CERATECH R/TP	
		L108	0LCCE00004B	O	INDUCTOR,CHIP	1.5UH, CHIP2012 CERATECH R/TP	
		L109	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L120	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L121	0LCCE00004D	O	INDUCTOR,CHIP	6.8UH, CHIP2012 CERATECH R/TP	
		L121	633-088D	O	COIL,CHOKE	CHOCK ,20UH KWANGSUNG LEAD CU	
		L122	0LCCE00004D	O	INDUCTOR,CHIP	6.8UH, CHIP2012 CERATECH R/TP	
		L122	633-088D	O	COIL,CHOKE	CHOCK ,20UH KWANGSUNG LEAD CU	
		L123	6140RCC002A	O	COIL,CHOKE	20UH/6A BAR CORE 20UH KWANGS	
		L125	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L126	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L701	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L702	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L703	0LCCE00004E	O	INDUCTOR,CHIP	10UH, CHIP2012 CERATECH R/TP	
		L704	0LCCE00004E	O	INDUCTOR,CHIP	10UH, CHIP2012 CERATECH R/TP	
		L705	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L706	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L707	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L708	0LCCE00004D	O	INDUCTOR,CHIP	6.8UH, CHIP2012 CERATECH R/TP	
		L709	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L710	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	
		L711	0LCCE00004F	O	INDUCTOR,CHIP	22UH, CHIP2012 CERATECH R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		L801	0LA0102K018	O	INDUCTOR AXIAL LEAD	10M K 2.3X3.4 L5 TP	
		LED103	0DL211009AA	O	LED	SML-211UT TP ROHM RED .	
		LED104	0DL210008GA	O	LED	SML-210MT R/TP ROHM GREEN 16	
		LED105	0DL210008GA	O	LED	SML-210MT R/TP ROHM GREEN 16	
<b>TRANSFORMER</b>							
△		T101	6170RNGW15A	O	TRANSFORMER,SMPS[COIL]	SJE-W15A SOOJUNG PVR-STB	
		TH01	6322B62204A	O	THERMISTOR,PTC	NTPAN4R0LDRB0 MURATA 4.0OHM 15	
<b>TRANSISTOR</b>							
		Q100	0TR830009BA	O	TRANSISTOR,BIPOLARS	BSS83 TP PHILIPS NON N-CHANNEL	
		Q101	0TR830009BA	O	TRANSISTOR,BIPOLARS	BSS83 TP PHILIPS NON N-CHANNEL	
		Q102	0TR102009AC	O	TRANSISTOR	KRA102S TP KEC SOT-23	
		Q103	0TR102009AC	O	TRANSISTOR	KRA102S TP KEC SOT-23	
		Q104	0TR102009AC	O	TRANSISTOR	KRA102S TP KEC SOT-23	
		Q105	0TR102009AC	O	TRANSISTOR	KRA102S TP KEC SOT-23	
		Q108	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q109	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q110	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q111	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q112	0TRFN80001A	O	TRANSISTOR,BIPOLARS	INFINEON BF799W R/TP SOT23 20V	
		Q113	0TRFN80001A	O	TRANSISTOR,BIPOLARS	INFINEON BF799W R/TP SOT23 20V	
		Q114	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q115	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q116	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q119	0TR102009AA	O	TRANSISTOR	CHIP KRC102S-T1(NB)10-10 KEC	
		Q120	0TR102009AA	O	TRANSISTOR	CHIP KRC102S-T1(NB)10-10 KEC	
		Q121	0TR102009AA	O	TRANSISTOR	CHIP KRC102S-T1(NB)10-10 KEC	
		Q151	0TR127309AA	O	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q152	0TR319809AC	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q702	0TR102009AA	O	TRANSISTOR	CHIP KRC102S-T1(NB)10-10 KEC	
		Q703	0TR101009AC	O	TRANSISTOR	KRC101S-T1(NA)4.7-4.7 CHIP KEC	
		Q704	0TR101009AC	O	TRANSISTOR	KRC101S-T1(NA)4.7-4.7 CHIP KEC	
		Q705	0TR101009AC	O	TRANSISTOR	KRC101S-T1(NA)4.7-4.7 CHIP KEC	
		Q706	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q707	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q708	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q709	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q710	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q711	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q712	0TR102009AC	O	TRANSISTOR	KRA102S TP KEC SOT-23	
		Q713	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q802	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
		Q803	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
		Q804	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
		Q805	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
		Q806	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
		Q810	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
		Q811	0TR102009AE	O	TRANSISTOR,BIPOLARS	KRA102M KEC TP TO92M 50V 100MA	
<b>RESISTOR</b>							
		AR100	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR101	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR102	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR103	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR104	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR105	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR106	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR107	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR108	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		AR109	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR110	0RRZVTA001J	O	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR111	0RRZVTA001J	O	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR112	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR113	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR114	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR115	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR116	0RRZVTA001S	O	RESISTOR,DRAWING	3.3K OHM 1 / 16 W 3216 5% R/TP	
		AR117	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR118	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR119	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR120	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR121	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR122	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR123	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR124	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR125	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR126	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR127	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR128	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR129	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR130	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR131	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR132	0RRZVTA001F	O	RESISTOR,DRAWING	33 OHM 1 / 16 W 3216 5% R/TP 8	
		AR133	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR134	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR135	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR136	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR137	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR138	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR139	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR140	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR141	0RRZVTA001G	O	RESISTOR,DRAWING	51 OHM 1 / 16 W 3216 5% R/TP 8	
		AR142	0RRZVTA001J	O	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR143	0RRZVTA001J	O	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		R100	0RD1504H632	O	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R101	0RS1003K619	O	RESISTOR,FIXED METAL OXIDE FIL	100K OHM 2 W 5.00% TR	
		R103	0RS1003K619	O	RESISTOR,FIXED METAL OXIDE FIL	100K OHM 2 W 5.00% TR	
		R104	0RS1003K619	O	RESISTOR,FIXED METAL OXIDE FIL	100K OHM 2 W 5.00% TR	
		R105	0RD0222F608	O	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5% TA26	
		R110	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R111	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R112	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R113	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R114	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R115	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R116	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R121	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R121	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R122	0RD2201F608	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R122	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R123	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R123	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R124	0RN3601F408	O	RESISTOR,FIXED METAL FILM	3.6K OHM 1/6 W 1.00% TA26	
		R125	0RN2701F408	O	RESISTOR,FIXED METAL FILM	2.7K OHM 1/6 W 1% TA26	
		R126	0RD1000F608	O	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5% TA26	
		R127	0RS1200J619	O	RESISTOR,FIXED METAL OXIDE FIL	120 OHM 1 W 5.00% TR	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R138	0RH3301C622	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R139	0RH3301C622	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R140	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R142	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R146	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R149	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R150	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R151	0RD4701F608	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R152	0RD4702F608	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA26	
		R153	0RD4701F608	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R154	0RD4701F608	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R154	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R155	0RD4701F608	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R156	0RD4701F608	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R157	0RD4701F608	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R158	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R158	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R159	0RD2201F608	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R160	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R161	0RD3300F608	O	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R162	0RD3300F608	O	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R162	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R166	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R167	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R171	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R172	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R173	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R177	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R179	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R180	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R181	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R183	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R184	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R185	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R186	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R187	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R188	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R189	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R190	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R191	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R193	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R195	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R200	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R207	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R208	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R209	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R211	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R212	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R213	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R214	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R215	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R216	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R218	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R219	0RH2701C622	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R220	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R221	0RH2701C622	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R222	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R227	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R231	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R234	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R236	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R237	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R238	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R239	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R240	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R241	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R244	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R245	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R246	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R247	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R248	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R249	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R250	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R251	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R252	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R253	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R254	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R255	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R256	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R257	0RJ6202C677	O	RESISTOR,METAL GLAZED(CHIP)	62K OHM 1/16 W 5% 1608 R/TP	
		R259	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R260	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R261	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R262	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R263	0RH1200C622	O	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R264	0RH1200C622	O	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R266	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R269	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R270	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R272	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R273	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R276	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R277	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R278	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R279	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R280	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R281	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R283	0RH6200C622	O	RESISTOR,METAL GLAZED(CHIP)	620 OHM 1 / 16 W 1608 5.00% D	
		R284	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R285	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R286	0RH3301C622	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R287	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R288	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R289	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R290	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R291	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R292	0RH3301C622	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R293	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R294	0RH6200C622	O	RESISTOR,METAL GLAZED(CHIP)	620 OHM 1 / 16 W 1608 5.00% D	
		R295	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R296	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R297	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R298	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R299	0RH5601C622	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R300	0RH5601C622	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R301	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R302	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R303	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R304	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R305	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R306	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R307	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R308	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R309	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R310	0RH5601C622	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R313	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R314	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R315	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R316	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R317	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R318	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R319	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R320	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R321	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R326	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R327	0RH0471C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R328	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R329	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R330	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R331	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R332	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R342	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R343	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R352	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R353	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R354	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R355	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R356	0RH2002C622	O	RESISTOR,METAL GLAZED(CHIP)	20K OHM 1 / 16 W 1608 5.00% D	
		R357	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R358	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R359	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R360	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R361	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R362	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R363	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R364	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R365	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R366	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R367	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R368	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R373	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R374	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R375	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R376	0RH5601C622	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R379	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R380	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R381	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R383	0RH5101C622	O	RESISTOR,METAL GLAZED(CHIP)	5100 OHM 1 / 16 W 1608 5.00% D	
		R384	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R385	0RH3001C622	O	RESISTOR,METAL GLAZED(CHIP)	3K OHM 1 / 16 W 1608 5.00% D	
		R386	0RH2700C622	O	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R387	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R388	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R390	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R391	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R395	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R396	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R400	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R401	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R402	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R403	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R404	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R405	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R406	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R407	0RH2701C622	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R408	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R409	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R410	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R415	0RH6200C622	O	RESISTOR,METAL GLAZED(CHIP)	620 OHM 1 / 16 W 1608 5.00% D	
		R416	0RH6200C622	O	RESISTOR,METAL GLAZED(CHIP)	620 OHM 1 / 16 W 1608 5.00% D	
		R417	0RH6200C622	O	RESISTOR,METAL GLAZED(CHIP)	620 OHM 1 / 16 W 1608 5.00% D	
		R420	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R421	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R422	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R423	0RJ3601C677	O	RESISTOR,METAL GLAZED(CHIP)	3.6K OHM 1/16 W 5% 1608 R/TP	
		R424	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R425	0RJ3601C677	O	RESISTOR,METAL GLAZED(CHIP)	3.6K OHM 1/16 W 5% 1608 R/TP	
		R426	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R427	0RJ3601C677	O	RESISTOR,METAL GLAZED(CHIP)	3.6K OHM 1/16 W 5% 1608 R/TP	
		R428	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R429	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R430	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R431	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R432	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R439	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R440	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R441	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R442	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R443	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R444	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R445	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R446	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R447	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R448	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R449	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R450	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R452	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R453	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R454	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R455	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R456	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R457	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R458	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R459	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R460	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R461	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R462	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R463	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R464	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R465	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R466	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R467	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R469	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R470	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R471	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R472	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R473	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R474	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R475	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R476	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R477	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R478	0RH0682C622	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R483	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R484	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R491	0RH0512C622	O	RESISTOR,METAL GLAZED(CHIP)	51 OHM 1 / 16 W 1608 5.00% D	
		R492	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R493	0RH4703C622	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R494	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R495	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R500	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R501	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R502	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R503	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R504	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R505	0RH6800C422	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 1.00% D	
		R506	0RH7500C622	O	RESISTOR,METAL GLAZED(CHIP)	750 OHM 1 / 16 W 1608 5.00% D	
		R507	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R508	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R511	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R513	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R518	0RJ1240C477	O	RESISTOR,METAL GLAZED(CHIP)	124 OHM 1/16 W 1% 1608 R/TP	
		R519	0RJ1240C477	O	RESISTOR,METAL GLAZED(CHIP)	124 OHM 1/16 W 1% 1608 R/TP	
		R600	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R603	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R606	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R607	0RJ1004C677	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1/16 W 5% 1608 R/TP	
		R608	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R609	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R611	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R613	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R614	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R616	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R705	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R706	0RH2701C622	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R707	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R708	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R709	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R712	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R713	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R716	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R718	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R720	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R721	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R722	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R723	0RH7500C622	O	RESISTOR,METAL GLAZED(CHIP)	750 OHM 1 / 16 W 1608 5.00% D	



S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R724	0RH7500C622	O	RESISTOR,METAL GLAZED(CHIP)	750 OHM 1 / 16 W 1608 5.00% D	
		R725	0RH7500C622	O	RESISTOR,METAL GLAZED(CHIP)	750 OHM 1 / 16 W 1608 5.00% D	
		R728	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R729	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R730	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R731	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R732	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R733	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R734	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R735	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R736	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R737	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R738	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R739	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R740	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R741	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R744	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R745	0RH3901C622	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R746	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R747	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R748	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R749	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R750	0RH3901C622	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R751	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R752	0RH3901C622	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R753	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R754	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R755	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R756	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R761	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R763	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R764	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R765	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R766	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R767	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R774	0RH2001C622	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R775	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R800	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R802	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R804	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R805	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R806	0RD2002F608	O	RESISTOR,FIXED CARBON FILM	20K OHM 1/6 W 5% TA26	
		R807	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R808	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R809	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R811	0RD2002F608	O	RESISTOR,FIXED CARBON FILM	20K OHM 1/6 W 5% TA26	
		R814	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R815	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R818	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R819	0RD0102F608	O	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5% TA26	
		R820	0RD2001F608	O	RESISTOR,FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R825	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R826	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R836	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R838	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R839	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R846	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	

S	AL	LOCA.NO	PART NO(LG)	A	DESCRIPTION	SPECIFICATION	REMARKS
		R847	0RD2002F608	O	RESISTOR, FIXED CARBON FILM	20K OHM 1/6 W 5% TA26	
		R848	0RD2001F608	O	RESISTOR, FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R849	0RD2001F608	O	RESISTOR, FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R850	0RD2001F608	O	RESISTOR, FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R851	0RD2001F608	O	RESISTOR, FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
		R852	0RD2001F608	O	RESISTOR, FIXED CARBON FILM	2K OHM 1/6 W 5% TA26	
<b>SENSOR</b>							
		IC102	657-063A	O	SENSOR	LTV-817B, PHOTO COUPLER(LITEON)	
<b>SWITCH</b>							
		J101	6600DU2093G	O	SWITCH, DIP	SSGM250100 DIP 5 DIGIT J-ALPS	
		J103	6600Q000010	O	SWITCH, SLIDE	CSS-2402A CHANG SHIN 5VDC 0.5A	
		SW800	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW801	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW802	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW803	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW804	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW805	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW806	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW807	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW808	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW809	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
		SW810	556-282C	O	SWITCH, TACT	SKQMQED ALPS DC 12 V 50 MA TA	
<b>TUNER</b>							
		IC143	6700NFNS05B	O	TUNER	TDPC-H902P Y2K2 LG NTSC FS DIR	
<b>CRYSTAL</b>							
		X100	6212AB2143C	O	RESONATOR, CRYSTAL	HC-49/SM BUBANG 14.31818MHZ +/-	
		X101	6212AB2800C	O	RESONATOR, CRYSTAL	HC-49/SM BUBANG 8MHZ +/- 50 PP	
		X700	6212AB2380C	O	RESONATOR, CRYSTAL	HC-49/SM BUBANG 38MHZ +/- 50 P	